KARINE CHEMLA

SPHERE — UMR 7219
CNRS — Université de Paris (University Paris Diderot)

http://www.sphere.univ-paris-diderot.fr/spip.php?article524&lang=en

Table of contents

1. Résumé

1.a Education

Born February 8, **1957** in Tunisia.
1973: Secondary school degree.
1976: Entry in the Ecole Normale Supérieure de Jeunes Filles (ENSJF).
1977: 4th year of mathematics (U. Paris 7).
1978: Agrégation de mathématiques.
1979: Master Degree (5th year), Mathematics (U. Paris 7).
1980-1981: Scholarship of the Foundation Singer-Polignac on a project "Science and Culture", undertaken in China. Self Learning of Chinese. Studies on the History of Mathematics in China at the Institute for the History of Natural Sciences, Academia Sinica, Beijing. Winner of the Prize of the Foundation to the Best Travel Report.
1981-82: 5th year in the ENSJF.
October 1982: Ph. D. in mathematics, Univ. Paris 13: "Etude du livre *Reflets des Mesures du Cercle sur la Mer* de Li Ye (1248)".

1.b Academic Positions

1982-Today: CNRS (French National Center for Scientific Research, Department: Mathematics. National Institute for the Humanities and Social Sciences).
Senior researcher emerita, February 9, 2024-
Senior researcher, exceptional class, 1st level, 2017. 2nd level, 2019.
Senior researcher 1st class, 2005-.
Senior Researcher 2nd class, 1997-.
Junior Researcher 1st class, 1986-.
Junior Researcher 2nd class, 1982-.

Research group: SPHERE (Sciences, Philosophy, History), UMR 7219, CNRS-University Paris Diderot-University Paris Panthéon Sorbonne (formerly: REHSEIS).

- Member of the Research Group (GDR) "History of science and technology in China, Korea and Japan." (1984—1996)
- Participation in the Young Scholar Project "Looking at it from Asia: The processes that shaped the sources of history of science," head: F. Bretelle-Establet. (2004-2007)
- Professor on a Guest Chair at Northwest University, Xi'an (2005-).
- Participation in the ANR Project "History of Numerical Tables," head: D. Tournès. (2009-2013)
- Senior Fellow at the Institute for the Study of the Ancient World (New York U.) (2010-).
- Professor on a Guest Chair at Jiaotong University, Shanghai (2010-),
- Professor on a Guest Chair at Hebei Normal University (2010-2013).

1.c Awards and Honors

- Member of the Deutsche Akademie der Naturforscher Leopoldina, Section History of Science and Medicine (Elected 2005).
- Effective Member of the Académie internationale d'histoire des sciences (2005-; corresponding member: elected 1997).

- Prize Binoux, Henri de Parville, Jean-Jacques Berger, Remlinger, French Academy of science (2006). https://www.academie-sciences.fr/archivage_site/activite/prix/laureat_06.pdf
- (with Guo Shuchun), Prize Hirayama, Academy of Inscriptions & Belles-Lettres (Paris) for the book *Les Neuf chapitres* (2006). https://aibl.fr/coupoles/palmares-2006-coupoles-2006/
- Silver Medal CNRS (2008).
- Chevalière, Ordre national du Mérite (2010).
- Member of the Academia Europaea, Section History and Archeology (Elected 2013).
- George Sarton chair holder, Universiteit Ghent (2013-4).
- Chevalière, Legion of Honor (2014).
- The Hans Rausing Lecture, Uppsala University (27 November 2017).
- Doctor Honoris Causa, Vrije Universiteit Brussel, 2 April 2019.
- Member, American Philosophical Society, Class 4: Humanities (April 2019).
- Zeeman fellow (October 13 - November 3, 2019): Zeeman lecture: « The shaping of scientific classics for modern uses. An Invitation to a critical approach » (October 14, 2019) and Masterclass for graduate students of the Vossius Center (October 17, 2019), Zeemanstichting and Vossius Center, University of Amsterdam.
- Otto Neugebauer Prize, European Mathematical Society (2020) (https://www.youtube.com/watch?v=L1sxjIGlfnc).
- Elected Fellow of the European Academy of Sciences. Social Sciences and Humanities Division (16 May 2020).
- 2021: Hirst Prize and Lectureship, London Mathematical Society and British Society for the History of Mathematics (https://www.lms.ac.uk/node/1710). Lecture: "Algebraic work with operations in China, 1st century—13th century", London Mathematical Society—British Society for the History of Mathematics, May 6, 2022.
- 2022: Award of the Commandino Medal, by the "Centro Interdipartimentale di Studi Urbino e la Prospettiva" and the "Centro Interuniversitario di Fondamenti della Fisica", University of Urbino, Carlo Bo (Lectio Commandiniana given in 2023: "The Modern Shaping of the Sciences of the Past and Why this Matters"). (https://www.youtube.com/watch?v=2ArwlF1lKJY).
- Associate Honorary Member of the Académie des sciences, belles-lettres et arts de Lyon (2023).
- Fellow of the World Academy of Art and Science (WAAS) (2023).
- Global Professorship, British Academy, 2024, on the project "Rethinking the history of mathematical symbolism", at the School of mathematics, University of Edinburgh.
- Neuenschwander Prize 2024, awarded by European Society for the History of Science.

1.d Fellowships and Grants

- Long-term visits at the Institute for the History of Natural Sciences, Chinese Academy of Science (CAS), Beijing, for the joint project of a critical edition and French translation of *The Nine Chapters* with Guo Shuchun, and for the editorial project of the China volume of the *Storia della Szienza*. (within the framework of the exchange program CNRS—CAS, June—Nov. 1984, Aug.—Nov. 1991, Sept.—Oct. 1998).

- Wissenschaftskolleg zu Berlin (Institute for Advanced Study, Berlin). Elected *Sprächerin* of the Fellows. (October 1994-July 1995).
- Invited Professor, University of Sao Paolo (Brazil). (November 1995).
- Invited Professor, Stanford University (Department of Classics and Program HPS). (February—March 2004).
- Fellow, Dibner Institute, MIT, Cambridge, Mass., US. (January-June 2006).
- Invited Fellow at the Max Planck Institute für Wissenschaftsgeschichte, Berlin. (July-August 2007; August 2012; July-August 2014; July-August 2017; August-December 2018).
- Fellowship "Chinese Academy of Sciences Visiting Professorship for Senior Foreign Scientists 外国专家特聘研究员", Chinese Academy of Science, Beijing (2009, for a visit in August-October 2010 at the Institute for the History of Natural Sciences).
- Principal Investigator of the European Research Council Advanced Research Grant, 5 years, Project "Mathematical Sciences in the Ancient World (SAW)" (co-directors of the project: Agathe Keller (CNRS) and Christine Proust (CNRS)) (2011-2016).
- Invited Professor, Institute for the History of Science, Inner Mongolia Normal University, China. (August 2011)
- Invited Professor at National Seoul University, South Korea. (August-September 2013)
- Invited researcher at the Institute for the History of Natural Sciences, Chinese Academy of Science (CAS), Beijing, for the joint project about the history of algebra with Tian Miao (April 28, 2017-May 31, 2017).
- Matina S. Horner Distinguished Visiting Professor, Radcliffe Institute, Cambridge, Mass. (2020-2021, virtual). Summer stays (June-July 2022, July 2023).
- 2022-2025 : (With Patrick Popescu) Award of an interdisciplinary project MITI "Interactions between mathematics and the history of mathematics: Historical approach and contemporary perspectives" (INSHS-INSMI) (https://miti.cnrs.fr/wp-content/uploads/2018/10/Liste_Laureats_80Prime2022_web.pdf)
- Research residence at the Fondation des Treilles (September 26-October 15, 2022). Project: "Mathematicians' philosophical reflections and mathematical advancement ; the case of Poncelet"). https://www.les-treilles.com/septembre-2022/. Report on the research work carried out: https://lestreilles.hypotheses.org/6486
- Invitation to the "Centre of Greek and Chinese Ancient Civilizations », National and Kapodistrian University of Athens (28 March 2023-4 April 2023).

2. Publications

2.a Monographs

Etude du livre Reflets des mesures du cercle sur la mer *de Li Ye*. Ph.D. dissertation, Mathematics, University Paris 13, October 12, 1982.

(with Guo Shuchun), *Les neuf chapitres. Le classique mathématique de la Chine ancienne et ses commentaires.* Critical edition and annotated French translation by K. Chemla and Guo Shuchun. Glossary of ancient mathematical terms in Chinese, by K. Chemla. Original calligraphies by Toshiko Yasumoto. Foreword by Geoffrey Lloyd, Dunod, 2004, 1150 p.

> **Reviews**: *Mathematical reviews,* **MR2111394 (2005h:01004)** 01A25 ; Emily Grosholz, *Gazette des mathématiciens,* 105, 2005, p. 49-56 ; Donald Wagner: http://www.staff.hum.ku.dk/dbwagner/Chemla-rev/Chemla-rev.html, published in *Centaurus*, 48, 2006, p. 319-322 ; Catherine Jami, in *Etudes Chinoises*, 24, 2005, p. 342-348 ; Tian Miao, in *T'oung Pao,* vol. 92, 4-5, 2006, pp. 511-514. Essay review by Christopher Cullen in *Studies in history and philosophy of science*, 37-3, 2006, p. 515-525. Reviews by: Annick Horiuchi in *Sciamus*, 7, 2006, p. 213-218 ; Andréa Bréard, *Zentralblatt*, 2007, notice 1055.01004 ; Lisa Raphals, in *Isis,* 2007, 98:1, p. 175-176 ; Alain Bernard, in *International Journal for the History of Mathematics Education*, 2007, 2.2, p. 103—106. Essay review by Alexei Volkov, "Commentaries upon commentaries: The translation of the *Jiu zhang suan shu* 九章算術 by Karine Chemla and Guo Shuchun", *Historia Mathematica*, 37, 2010, p. 281—301. Review by Joël Brenier in the *Encyclopedia Universalis*.

The Motley Practices of Generality in Various Epistemological Cultures, The Hans Rausing lecture 2017, Salvia Småskrifter n˚17, 2018, 48 p, ISBN: 978-91-519-0708-6. Online at: https://www.idehist.uu.se/avdelningen-for-vetenskapshistoria/hans-rausing-forelasningar/2017/

2.b Edited and Co-edited Books

K. Chemla and I. Ekeland (eds.), *Mathématiques à venir. Quels mathématiciens pour l'an 2000 ?,* Dunod, 1988, Supplement of the *Bulletin de la Société Mathématique de France*, 1987, 400 p. Available online at: http://www.maths-a-venir.org/2009/sites/math-a-venir.org/files/pdf/MAV1987.pdf

K. Chemla (ed.), "Démarches mathématiques", *Encyclopédie Philosophique Universelle,* Presses Universitaires de France, 1989, p. 987 -1106.

K. Chemla, A. Volkov and V. Lichtmann (eds.), *Modèles et structures des textes chinois anciens*, Recueil de travaux soviétiques en sinologie, *Extrême-Orient, Extrême Occident, 13*, 1991, 162 p. Available online at: http://persee.cines.fr/web/revues/home/prescript/issue/oroc_0754-5010_1991_num_13_13.

P. Benoit, K. Chemla and J. Ritter (eds.), *Histoire de fractions, fractions d'histoire,* Birkhäuser, 1992, Book Series "Science Networks", n° 10, 440 p.

> **Reviews:** Vincent Jullien, *Revue d'histoire des sciences*, 1994, 47, 3-4, p. 514-515. Hélène Gispert, *Historia Mathematica,* 23, 3, 1996, p. 319-323.

A. Dahan, J.-L. Chabert and K. Chemla (eds.) *Chaos et déterminisme*, Book Series "Points Sciences", Le Seuil, 1992, 416 p.

K. Chemla (ed.), *Regards obliques sur l'argumentation en Chine*, *Extrême-Orient, Extrême-Occident, 14*, 1992, 206 p. Available online at:
http://persee.cines.fr/web/revues/home/prescript/issue/oroc_0754-5010_1992_num_14_14.

K. Chemla and François Martin (eds.), *Le juste nom*, *Extrême-Orient, Extrême-Occident, 15,* 1993, 176 p. Available online at: http://persee.cines.fr/web/revues/home/prescript/issue/oroc_0754-5010_1993_num_15_15.

Review: V. Alleton, *Etudes chinoises,* 15, 1-2, 1996, p. 183-192.

K. Chemla, François Martin and Jacqueline Pigeot (eds.), *Le travail de la citation en Chine et au Japon, Extrême-Orient, Extrême-Occident*, *17*, 1995, 160 p. Available online at: http://persee.cines.fr/web/revues/home/prescript/issue/oroc_0754-5010_1995_num_17_17.

K. Chemla and Michael Lackner (eds.) *Disposer pour dire, placer pour penser, situer pour agir. Pratiques de la position en Chine*, *Extrême-Orient, Extrême-Occident,* 18, 1996, 192 p. Available online at: http://persee.cines.fr/web/revues/home/prescript/issue/oroc_0754-5010_1996_num_18_18.

Siegmund Probst, K. Chemla, Agnès Erdély and Antonio Moretto (eds.), *Ceci n'est pas un festschrift pour Imre Toth*, 29-12-1996. Online at: http://halshs.ccsd.cnrs.fr/halshs-00004274/

K. Chemla (ed.), *La valeur de l'exemple. Perspectives chinoises*. *Extrême-Orient, Extrême-Occident, 19*, 1997, 160 p. Available online at: http://persee.cines.fr/web/revues/home/prescript/issue/oroc_0754-5010_1997_num_19_19.

François Martin, Jacqueline Pigeot and K. Chemla (eds.), *Du divertissement dans la Chine et le Japon anciens. Homo Ludens Extrême-Orientalis*, *Extrême-Orient, Extrême-Occident, 20,* 1998, 176 p. Available online at: http://persee.cines.fr/web/revues/home/prescript/issue/oroc_0754-5010_1998_num_20_20.

K. Chemla, Marc Kalinowski and Donald Harper (eds.), *Divination et rationalité en Chine ancienne, Extrême-Orient, Extrême-Occident, 21*, 1999, 176 p. Available online at: http://persee.cines.fr/web/revues/home/prescript/issue/oroc_0754-5010_1999_num_21_21.

K. Chemla (ed.), with an editorial board: F. Bray, Fu Daiwie, Huang Yilong, and G. Métailié, "La scienza in Cina", in Sandro Petruccioli (gen.ed.), *Storia della scienza*, 8 volumes, Enciclopedia Italiana, Roma, 2001, volume II, 2001, p. 1-608 (The text of the Encyclopedia is available online at: http://www.treccani.it/enciclopedia/). The China volume was partly translated into Chinese in the journal 法國漢學 *Faguo hanxue* (French Sinology), 6, 2002, p. 1-397.

K. Chemla (ed.), *History of science, history of text,* Springer, Collection "Boston studies in the philosophy of science", 2004, XXVIII+254 p.

> **Essay reviews** par Norma B. Goethe, "Modes of representation, working tools, and the history of mathematics", *Historia Mathematica*, 35, 3, 2008, p. 242-247 (Erratum: 36 (1) (2009), 109) ; Annette Imhausen Warner, *Aestimatio*, 5, 2008, http://www.ircps.org/publications/aestimatio/pdf/Volume5/2008-04-01_ImhausenBW.pdf.

Florence Bretelle-Establet and K. Chemla (eds.), *Qu'était-ce qu'écrire une encyclopédie en Chine*? *What did it mean to write an encyclopedia in China*, *Extrême-Orient, Extrême-Occident*, hors-série, 2007, 224 p. Available online at: http://persee.cines.fr/web/revues/home/prescript/issue/oroc_0754-5010_2007_hos_1_1.

K. Chemla (ed.), with Mireille Delbraccio, *Action Concertée "Histoire des savoirs" 2003—2007. Recueil de synthèses*, 2007. Available online at: http://www.cnrs.fr/prg/PIR/programmes-termines/histsavoirs/histsavoirs.htm, and more precisely at: http://www.cnrs.fr/prg/PIR/programmes-termines/histsavoirs/synth2003-2007Histoiredessavoirs.pdf, CNRS, 2007.

K. Chemla (ed.), *The History of Mathematical Proof in Ancient Traditions*, Cambridge University Press, 2012, xvi +596 p. Paperback edition (2015).

> **Reviews**: Serafina Cuomo, *The British Journal for the History of Science*, 46 (03), 2013,

p. 517-519. doi:10.1017/S0007087413000459. Jacqueline Feke, *Early Science and Medicine*, 18, 6, 2013, p. 568-570. doi: 10.1163/15733823-0186P0005. Bryon E. Wall, *Isis*, 105, 4, 2014, p. 836-837. Michalis Sialaros, *The Journal of Hellenic Studies,* 134, 2014, p. 267-268. Jochen Brüning, *Common Knowledge*, 21, 3, 2015, p. 524-525. Duncan Melville, *Aestimatio* 11, 2014, p. 179-187.

K. Chemla (ed.), Special issue *Explorations on the History of Recreational mathematics*, *Historia mathematica*, 41, 4, 2014, p. 367-517. Issue for the 40th anniversary of the journal.

K. Chemla and J. Virbel (eds.), *Texts, Textual Acts and the History of Science,* Book Series "Archimedes", Springer, 2015.
Reviews: Nathan Sidoli, *Isis*, 108, 2, 2017, p. 417-418.

K. Chemla, R. Chorlay and D. Rabouin (eds.), *The Oxford Handbook of Generality in Mathematics and the Sciences*, Oxford University Press, 2016.
Reviews: Jenny Boucard, *Revue d'histoire des sciences*, 70, 1, 2017, p. 238-241. Vincenzo De Risi, *Early Science and medicine*, 22, 4, 2017, p. 399-403. David Rowe, *Isis*, 108, 4, 2017, p. 872-873. Christoph Eckes (translated by Rachel Keith), *HOPOS*: *The Journal of the International Society of the History of Philosophy of Science*, 8 (Spring 2018), p. 214–217.

K. Chemla and Evelyn Fox Keller (eds.), *Cultures without culturalism: The making of scientific knowledge*, Duke University Press, April 2017.
Reviews: Yeang Chen-Pang, *East Asian Science, Technology and Society: An International Journal*, 11, 2017, p. 463–466; Michael Barany, "Culture's tension", *Metascience*, 27, 2, 2018, p. 275-278, https://doi.org/10.1007/s11016-018-0286-2. Alfred Freeborn, *Journal for General Philosophy of Science*, 2018, p. 1-6, https://link.springer.com/content/pdf/10.1007%2Fs10838-018-9434-z.pdf. Nadin Heé, *NTM. Natur, Technik, Medizin,* 27, 2, 2019, p. 221-223.

K. Chemla (ed.), Two special issues of *East Asian Science, Technology and Medicine*, 43 & 44 (2016) titled *Numerical Tables and Tabular Layouts in Chinese scholarly documents* (I & II) (vol. I (March 2017), vol. II (April 2017)). Online at: https://brill.com/view/journals/east/43/1/east.43.issue-1.xml and https://brill.com/view/journals/east/44/1/east.44.issue-1.xml

D. Morgan, D. Chaussende, with the collaboration of K. Chemla (eds.), *Monographs in Tang Official Historiography. Perspectives from the Technical Treatises of the* History of Sui (Sui Shu) (Preprint handed out and discussed during the conference of the project ERC SAW "Treatises of the *Book of Sui*", 2013, organized by D. Chaussende, K. Chemla and Zhu Yiwen). Springer, 2019.

C. Michel and K. Chemla (eds.), *Mathematics, Administrative and Economic Activities in Ancient Worlds,* Springer, 2020.
Reviews: Duncan Melville, website of the Mathematical Association of America, 8-8-2021, https://www.maa.org/press/maa-reviews/mathematics-administrative-and-economic-activities-in-ancient-worlds. Annette Imhausen, *NTM*, 2022.

(ed. with Agathe Keller and Christine Proust) *Cultures of computation and quantification in the ancient world. Numbers, measurements, and operations in documents from Mesopotamia, China and South Asia*, Springer, 2022 (Preprint handed out and discussed during a SAW conference with the same title, 2013).

Karine Chemla and Glenn W. Most (eds.), *Mathematical Commentaries in the Ancient World: A Global Perspective*, Cambridge University Press, 2022 (Preprint of the book handed out and discussed during a workshop held at the Max Planck Institut für Wissenschaftsgeschichte, Berlin, August 2017).

K. Chemla and R. Netz (invited editors), *The Place of Archimedes in World History: Arguments and Counterarguments,* Special issue *Interdisciplinary Science Review* (ISR), 47 (n° 3-4), 2022.

(ed., with Jose Ferreiros, Ji Lizhen, Erhard Scholz, Wang Chang) *The richness of the History of Mathematics. A Tribute to Jeremy Gray,* Book series *Archimedes*, Springer, 2023.

A. Keller and K. Chemla (eds.) *Shaping the Sciences of theAncient and Medieval WorldTextual Criticism, Critical Editionsand Translations of Scholarly Texts in History*, Springer, Book series "Archimedes", 2024.

Tian Miao and K. Chemla (eds.), *A Worldwide Approach to the Early History of Algebra seen from China* (contract with Springer, book in preparation).

2.c Articles and Book Chapters (Last fifteen years only)

"Penser sur la science avec les mathématiques de la Chine ancienne", in Anne Cheng (ed.), *La pensée en Chine aujourd'hui*. Epilogue of the Book "Dépasser l'altérité", Gallimard, Folio, 2007, p. 353-386, 432-438. Preprint available online at: http://halshs.archives-ouvertes.fr/halshs-00903738.

K. Chemla and Florence Bretelle-Establet, "Introduction: Qu'était-ce qu'écrire une encyclopédie en Chine?", in K. Chemla and F. Bretelle-Establet (eds.), *Qu'était-ce qu'écrire une encyclopédie en Chine*? *What did it mean to write an encyclopedia in China*, *Extrême-Orient, Extrême-Occident*, 2007, p. 7-18. Available online at: http://persee.cines.fr/web/revues/home/prescript/article/oroc_0754-5010_2007_hos_1_1_1066.

"La généralité, valeur épistémologique fondamentale des mathématiques de la Chine ancienne", Journée Jean Filliozat, *Comptes rendus de l'Académie,* Académie des Inscriptions et Belles-Lettres, Institut de France, 2006 (2008), 10 bis, fascicle IV, p. 113—146.

"Antiquity in the shape of a Canon. Views on antiquity from the outlook of mathematics", in Dieter Kuhn and Helga Stahl (eds.), *Perceptions of Antiquity in Chinese Civilization,* Book Series "Würzburger Sinologische Schriften", 2008, p. 191-208. The version submitted is available online at: http://halshs.ccsd.cnrs.fr/halshs-00010369/.

"Canon and commentary: An outlook based on mathematical sources," Preprint, Max Planck Institut für Wissenschaftsgeschichte, 2008, http://www.mpiwg-berlin.mpg.de/Preprints/P344.PDF. A revised version has appeared in *Tan shi qiu xin—Qingzhu Guo Shuchun xiangsheng bashi huadan wenji* 探史求新——庆祝郭书春先生八十华诞文集, edited by Zou Dahai, Guo Jinhai and Tian Miao, Harbin Institute of Technology Press, 2023, p. 26-59.

"On mathematical problems as historically determined artifacts. Reflections inspired by sources from ancient China", *Historia Mathematica*, 36, 3, 2009, p. 213-246. Available at: https://www.sciencedirect.com/science/article/pii/S0315086008001109. The article was reprinted in the special issue published for the 40th anniversary of the journal *Historia Mathematica*, 2014, available online at: http://www.journals.elsevier.com/historia-mathematica/news/four-decades-of-excellence-in-the-history-of-mathematics-ann/.

"Literacy and the history of science. Reflections based on Chinese and other sources", in David R. Olson and Nancy Torrance (eds.), *Cambridge Handbook of Literacy*, Cambridge University Press, 2009, p. 253-270.

"Apprendre à lire: La démonstration comme élément de pratique mathématique", *Communications,* 2009, 84, special issue: R. Mandressi (ed.), *Figures de la preuve*, p. 85-101.

"從古代中國數學的觀點探討知識論文化 (An approach to epistemological cultures from the vantage point of some mathematics of ancient China)", 祝平一 Chu Pingyi (ed.), *New views on Chinese history. Volume on the History of Science and Technology*: *Science, technology and Chinese society* 中國

史新論科技史分冊：科技與中國社會 (in Chinese), Book published for the 80th anniversary of the Institute of History and Philology, Academia Sinica, Taiwan, 台北：聯經出版社, 2010, p. 181-270.

"A Chinese Canon in Mathematics and its two Layers of Commentaries: Reading a collection of texts as shaped by actors", in F. Bretelle-Establet (ed.), *Looking at it from Asia: the processes that shaped the sources of history of science*, Springer, Book Series "Boston Studies in the Philosophy of Science", 265, 2010, p. 169—210.

"Mathematics, Nature and Cosmological Inquiry in Traditional China", in Guenther Dux and Hans-Ulrich Vogel (eds.), *Concepts of Nature in Traditional China: Comparative Approaches*, Leiden: Brill, 2010, p. 255—284 (Proceedings of the Symposium "Understanding Nature in China and Europe until the eighteenth century. A cross-cultural Project ", March 23-25, 2000).

"Proof in the Wording: Two modalities from Ancient Chinese Algorithms", in G. Hanna, H. N. Jahnke, and H. Pulte, *Explanation and Proof in Mathematics: Philosophical and Educational Perspectives*, Springer, 2010, pp. 253—285. Preprint available online at: http://halshs.archives-ouvertes.fr/halshs-00841587.

"Changes and continuities in the use of diagrams *tu* in Chinese mathematical writings (3rd century-14th century) [I]", EASTS. *East Asian Science, Technology, and Society, An International Journal*, 4, 2010, p. 303–326. The article is available online at: https://read.dukeupress.edu/easts/article/4/2/303/97767/Changes-and-Continuities-in-the-Use-of-Diagrams-Tu. A preprint of the full article, in French, is available online at: http://halshs.archives-ouvertes.fr/halshs-00837549.

"Usage of the terms "likewise" and "like" in texts for algorithms. Algorithmic analogies in ancient China", in Klaus Hentschel (ed.), *Analogien in Naturwissenschaft und Medizin*, Leopoldina, 2010 (*Acta Historica Leopoldina*), p. 329-357. Preprint available online at: http://halshs.archives-ouvertes.fr/halshs-00837518.

Karine Chemla and Ma Biao, "Interpreting a newly discovered mathematical document written at the beginning of Han dynasty in China (before 157 B.C.E.) and excavated from tomb M77 at Shuihudi 睡虎地," *Sciamvs*, 12, 2011, p. 159-191. Online at: https://www.sciamvs.org/files/SCIAMVS_12_159-191_Chemla_Ma.pdf

"數學證明編史學中的一個理論問題 (A theoretical issue in the historiography of mathematical proof)", *Science & Culture Review* (科学文化评论), 8, 3, 2011, p. 16—25.

"Constructing value with instruments versus constructing equivalence with mathematics. Measuring grains according to early Chinese mathematical sources", in John Papadopoulos and Gary Urton (eds.), *The Construction of Value in the Ancient World*, Cotsen Institute of Archaeology, 2012, p. 459-474 (references, p. 536-595).

"Reading proofs in Chinese commentaries: Algebraic proofs in an algorithmic context", in K. Chemla (ed.), *The History of Mathematical Proof in Ancient Traditions*, Cambridge University Press, 2012, p. 423—486.

"Prologue: Historiography and history of mathematical proof: A research program", in K. Chemla (ed.), *The History of Mathematical Proof in Ancient Traditions*, Cambridge University Press, 2012, p. 1—68.

"Using documents from ancient China to teach mathematical proof", in G. Hanna & M. de Villiers (eds.) *Proof and Proving in Mathematics Education*, Book Series "New ICMI Study Series", 15, Springer, 2012, p. 423-429. Open access: https://link.springer.com/book/10.1007/978-94-007-2129-6.

"Shedding some light on a possible origin of the concept of fraction in China. Division as a link between the newly discovered manuscripts and *The Gnomon of the Zhou [dynasty]*", *Sudhoffs Archiv,* 97 (2), 2013, p. 174-198. Available online at: https://halshs.archives-ouvertes.fr/halshs-01138465/document

"Ancient writings, modern conceptions of authorship. Reflections on some historical processes that shaped the oldest extant mathematical sources from ancient China", in Markus Asper (ed.), *Writing Science. Medical and Mathematical Authorship in Ancient Greece,* De Gruyter, 2013, p. 63-82.

"Observing mathematical practices as a key to mining our sources and conducting conceptual history. Division in ancient China as a Case study", in Léna Soler, Sjoerd Zwart, Michael Lynch and Vincent Israël-Jost (eds.), *Science after the Practice Turn in Philosophy, History, and the Social Studies of Science*, Routledge, 2014, p. 238-268. Preprint available online at: http://halshs.archives-ouvertes.fr/halshs-00803425.

"On the sources of the historian of science from the perspective of a history of education", in Alain Bernard & Christine Proust (eds.), *Scientific Sources and Teaching Contexts throughout History: Problems and Perspectives*, Book Series "Boston Studies in the Philosophy of Science", vol. 301, Springer, 2014, p. 305-324.

"The Dangers and Promises of Comparative History of Science", *Sartoniana*, 27, 2014, Sarton Chair of the History of Sciences, University of Ghent, Belgium, p. 13-44. The published version is available online at: http://www.sartonchair.ugent.be/file/288.

"Explorations on the History of Recreational Mathematics: An Introduction", *Historia Mathematica* (Introduction to the special issue *Explorations on the History of Recreational mathematics*), 41, 4, 2014, p. 367-376.

"Describing texts for algorithms: how they prescribe operations and integrate cases. Reflections based on ancient Chinese mathematical sources", in K. Chemla and J. Virbel (eds.), *Texts, Textual Acts and the History of Science,* Springer, Book Series "Archimedes", 2015, p. 317-384.

K. Chemla and Jacques Virbel, "Introduction: Textual acts and the History of science", in K. Chemla and J. Virbel (eds.), *Texts, Textual Acts and the History of Science,* Springer, Book Series "Archimedes", 2015, p. 1-46.

K. Chemla and Ma Biao, "How do the earliest known mathematical writings highlight the state's management of grains in early imperial China?", *Archive for history of exact sciences*, 69 (1), 2015 (2014), p. 1-53. https://link.springer.com/article/10.1007%252Fs00407-014-0139-3

"The Value of Generality in Michel Chasles's Historiography of Geometry", in K. Chemla, R. Chorlay and David Rabouin (eds.), *The Oxford Handbook of Generality in Mathematics and the Sciences*, Oxford University Press, 2016, p. 47-89.

K. Chemla, Renaud Chorlay and David Rabouin, "Prologue: Generality as a component of an epistemological culture", in K. Chemla, R. Chorlay and David Rabouin (eds.), *The Oxford Handbook on Generality in Mathematics and the Sciences*, Oxford University Press, 2016, p. 1-41.

"Proof, Generality and the Prescription of Mathematical Action: A Nanohistorical Approach to Communication", European Society for the History of Science, Presidential address, *Centaurus*, 57, 2015 (2016), p. 278–300. The article is available online at: http://onlinelibrary.wiley.com/doi/10.1111/1600-0498.12111/full

"Reading *The History Manifesto* as a historian of mathematics in ancient China", *Isis*, 107 (2), 2016, p. 324-333. The article is available online at:
http://www.journals.uchicago.edu/doi/pdfplus/10.1086/687222.

墨子涵 (Daniel Morgan) and 林力娜 (Karine Chemla), "也有輪著寫的：張家山漢簡《筭數書》寫手與篇序初探 (There is Also Writing in Turns: Initial Investigation of the Hands and Compilational Order of the Han Bamboo Manuscript *Suan shu shu* (*Writings on mathematical procedures*) from Zhangjiashan)", *Jianbo* 簡帛 12, 2016, p. 235-252. Preprint available online at: https://halshs.archives-ouvertes.fr/halshs-01347036.

Daniel Morgan and Karine Chemla, "Writing in Turns : An Analysis of Scribal Hands in the Bamboo Manuscript *Suan shu shu* 筭數書 (*Writings on Mathematical Procedures*) from Zhangjiashan Tomb No. 247", *Silk and Bamboo*, 1, 2018, p. 152-189. English version significantly revised of the previous title. Preprint: https://halshs.archives-ouvertes.fr/halshs-01577808/file/Morgan%20Chemla%20-%202017%20-%20Writing%20in%20Turns%20-%20submission.pdf

"Numerical tables in Chinese writings devoted to mathematics: From early imperial manuscripts to printed Song-Yuan books", *East Asian Science, Technology and Medicine*, 44, 2016 (2017), p. 69-121. Online at: https://brill.com/view/journals/east/44/1/article-p69_5.xml?language=en

"Numerical Tables and Tabular Layouts in Chinese scholarly documents: An introduction (part I): On the work to produce tables and the meaning of their format)", Introduction to volume 1 of a special issue, titled *Numerical Tables and Tabular Layouts in Chinese scholarly documents* (I), *East Asian Science, Technology and Medicine*, 43, 2016 (2017), p. 9-15. http://www.eastm.org/index.php/journal/article/viewFile/758/649. See also at: https://brill.com/view/journals/east/43/1/article-p9_2.xml

"Numerical Tables and Tabular Layouts in Chinese scholarly documents: An introduction (part II): Synchronic and Diachronic approaches to the texts of tables)", Introduction to volume 2 of a special issue, titled *Numerical Tables and Tabular Layouts in Chinese scholarly documents* (II), *East Asian Science, Technology and Medicine*, 44, 2016 (2017), p. 11-20. https://www.jstor.org/stable/pdf/90007811.pdf. See also at: https://brill.com/view/journals/east/44/1/article-p11_3.xml

"Changing mathematical cultures, conceptual history and the circulation of knowledge. A case study based on mathematical sources from ancient China", in K. Chemla and E. Fox Keller (eds.), *Cultures without culturalism: The making of scientific knowledge*, Duke University Press, April 2017, p. 352-398.

K. Chemla and Evelyn Fox Keller, "Cultures without culturalism in the making of scientific knowledge. Introduction", in K. Chemla and E. Fox Keller (eds.), *Cultures without culturalism: The making of scientific knowledge*, Duke University Press, 2017, p. 1-25. Available online at: https://www.dukeupress.edu/Assets/PubMaterials/978-0-8223-6372-9_601.pdf.

"What can be derived from Evelyn Fox Keller's article about scientific cultures? Some thoughts about language and scientific activity", EASTS. *East Asian Science, Technology, and Society, An International Journal*, 11, 3, 2017, p. 411-416.

"Abstraction as a value in the historiography of mathematics in ancient Greece and China. A Historical approach to comparative history of mathematics", in Geoffrey Lloyd and Jingyi Jenny Zhao (eds.), in collaboration with Qiaosheng Dong, *Ancient Greece and China Compared*, Cambridge University Press, 2018 (2017), p. 290-325.

(with Wu Min 吴旻) "数学史料与中国古代社会——访法国汉学家林力娜教授 (Mathematical documents and Society in ancient China—Interview with the French Sinologist Karine Chemla)", 中国史研究动态 (*Trends of Recent Researches on the History of China*), 2018, 6, p. 69-75.

Ma Biao (馬彪) and K. Chemla (林力娜) "秦、西汉容量"石"诸问题研究 (Research on various problems raised by the capacity measuring unit 'dan' in the Qin and Western Han time periods)", *Zhongguo shi yanjiu* 中國史研究 (Researches on the history of China), 160, 4, 2018, p. 41-58.

(with 鄒大海 ZOU Dahai), "Parts in Chinese mathematical texts. Interpreting the chapter form of *The Nine Chapters on Mathematical Procedures*", Preprint handed out at the conference "Parts and Pieces: An Exploration of the Textuality of Scientific Writings", SAW Project, 3 - 4 July 2013. The revised version has appeared in Florence Bretelle-Establet and Stéphane Schmitt (eds.), *Pieces and Parts in Scientific Texts*, Springer, 2018, p. 91-133.

"Mathematical Knowledge and Practices from early imperial China till the Tang Dynasty (618-907)", in Alexander Jones and Liba Taub (eds.), *Cambridge History of ancient science,* Cambridge University Press, 2018, p. 553-573.

"Mathematics", in Paul Goldin (ed.), *Routledge Handbook of Early Chinese History*, Routledge, 2018, p. 473-492.

"How has one, and how could have one, approached the diversity of mathematical cultures?", In Volker Mehrmann and Martin Skutella (eds.), *Proceedings of the 7th European Congress of Mathematics 2016*, Berlin, 18-22 August 2016 (2018), p. 1-61.

"The proof is in the diagram. Liu Yi and the graphical writing of algebraic equations in 11th century China", *Endeavour*, 42, 2018, p. 60–77.
https://www.sciencedirect.com/science/article/pii/S0160932718300620

"Different clusters of text from ancient China, different mathematical ontologies", Preprint handed out for the workshop "Science in the forest, Science in the past: Clash of ontologies and problems of translation", organized by Geoffrey Lloyd, Aparecida Vilaça, Mauro Almeida and Manuela Carneiro da Cunha, Cambridge University, May 31- June 2, 2017. Revised version published in *HAU: Journal of Ethnographic Theory*, 9, n° 1, 2019, p. 99–112. Can be downloaded from: https://www.journals.uchicago.edu/doi/pdfplus/10.1086/703799. Reprinted in Geoffrey E. R. Lloyd and Aparecida Vilaça (eds.), *Science in the Forest, Science in the Past*, HAU Books, University of Chicago Press, 2020, p. 121-145.

"Writing abstractly in mathematical texts from early imperial China", preprint handed out at the conference *Technical Arts and Historical Writing in Early China*, Berkeley, November 6-8, 2014. The revised version was published in: Mark Csikszentmihalyi and Michael Nylan (eds.), *Technical Arts in the Han Histories: Tables and Treatises in the Shiji and Hanshu*, SUNY, 2021, p. 307-338.

(with Zhu Yiwen) "Contrasting commentaries, and contrasting subcommentaries
on mathematical and on Confucian canons", in K. Chemla and G. W. Most (eds.), *Mathematical Commentaries in the Ancient World: A Global Perspective*, Cambridge University Press, 2022, p. 278-433.

Zhu Yiwen and K. Chemla, "Algorithms carrying out derivations (*tui*) versus Algorithms for looking for (*qiu*). On the first entry of *Mathematical Procedures for the Five Canonical Texts*", in M. Husson, A. Keller and C. Proust (eds.), *Practices of reasoning in the mathematical sciences* (title to be confirmed). Preprint handed out at the conference with the same title, December 2017.

"Li Ye *Ce Yuan Hai Jing* de jiegou ji qi dui shuxue zhishi de biaoshi 李治測圓海鏡的結構 及其對數學知識的表示", ("Textual structures and expression of mathematical knowledge in Li Y's *Ce Yuan Hai Jing*"), 數學史文集 *Shuxueshi wenji* (Collected papers on the history of mathematics), 5, 1993, p. 123-142 (in Chinese) (Presentation in Chinese in *NHCS*, 9, 1995, p. 22-3). An English version of this article will appear in Tian Miao and K. Chemla (eds.), *A Worldwide Approach to the Early History of Algebra seen from China* (contract with Springer, book in preparation).

"Working on and with division in early China", Preprint handed out at the conference "Cultures of computation and quantification in the ancient world", SAW Project, 25-29 March 2013. The revised version has appeared in K. Chemla, A. Keller & C. Proust (eds.), *Cultures of computation and quantification in the ancient world*, Springer, 2022, p. 433-493. A preprint version, before English polishing, is available at the following address: https://halshs.archives-ouvertes.fr/halshs-01954353.

"Various facets of a formal work on operations in a tradition from China, 1st century—13th century", in Tian Miao and K. Chemla (eds.), *A Worldwide Approach to the Early History of Algebra seen from China*, (Contract with Springer, book in preparation).

"Different Concepts of Equations in *The Nine Chapters on Mathematical Procedures* and in the Commentary on it by Liu Hui (3rd century)", *Historia Scientiarum*, 4, n° 2, 1994, p. 113-37. Preprint: https://halshs.archives-ouvertes.fr/halshs-00873649/file/Different_Concepts_of_Equations.pdf (Presentation in *NHCS*, 10, 1995, p. 25). A revised version of this article is forthcoming in Tian Miao and K. Chemla (eds.), *A Worldwide Approach to the Early History of Algebra seen from China* (contract with Springer, book in preparation).

"L'histoire des sciences dans la sinologie des débuts du XIXe siècle : les Biot père et fils", Preprint handed out at the conference "Jean-Pierre Abel-Rémusat et ses successeurs. Deux cents ans de sinologie française en France et en Chine / 中法汉学之间两世纪的交流 ： 中法合办法兰西学院雷慕沙讲座两百周年纪念学术研讨会", organized by P. E. Will, Collège de France, June 11-13, 2014 (The document is available online at: https://halshs.archives-ouvertes.fr/halshs-01509318/document). The final version appeared in Pierre-Etienne Will & Michel Zink (eds.), *Jean-Pierre Abel-Rémusat et ses successeurs. Deux cents ans de sinologie française en France et en Chine,* Publications of the Académie des Inscriptions et Belles-Lettres & Collège de France, 2020, p. 411-437. Online: https://halshs.archives-ouvertes.fr/halshs-01509318

"Needham and the issue of Chinese as a language for science: Taking a linguistic turn materially", *Isis* (in D. Schaefer & Florence Hsia (eds.), Needham – Second Look), 110, 1, 2019, p. 109-115. Text online at https://www.journals.uchicago.edu/doi/pdfplus/10.1086/702915.

"Reading and (Re-)Classifying Canonical Instructions of the Past: Commentaries on *The Nine Chapters on Mathematical Procedures* from the 3rd to the 13th Centuries", Preprint for the Blog of the conference "Learning by the book", Princeton University, June 6-10, 2018, History of Knowledge, June 5, 2018, https://historyofknowledge.net/2018/06/05/reading-and-re-classifying-canonical-instructions-of-the-past-commentaries-on-the-nine-chapters-on-mathematical-procedures-from-the-3rd-to-the-13th-centuries/. See the set of contributions online at: https://historyofknowledge.net/lbtb/.

(with Glenn W. Most) "Introduction: Why study mathematical commentaries?", in Karine Chemla and Glenn W. Most (eds.), *Mathematical Commentaries in the Ancient World: A Global Perspective*, Cambridge University Press, 2022, p. 1-50.

"Hourya : un témoignage et une relecture de Corps et modèles", in E. Haffner and D. Rabouin, *L'épistémologie du dedans. Mélanges en l'honneur d'Hourya Benis-Sinaceur*, Classiques Garnier, 2021, p. 501-513.

"On the Diagrammaticity of Ancient Texts and its Importance for the History of Science, Based on the Example of the Early Chinese Mathematical Text *The Gnomon of the Zhou*," *EASTS (East Asian Science, Technology and Society*), 14, 2020, p. 279–308 (read online at the address: http://dx.doi.org/10.1215/18752160-8538529).

"Ancient and Medieval Science in Peril", *Looking Back as We Move Forward: The Past, Present, and Future of the History of Science. Liber amicorum for Jed Z. Buchwald on his 70th birthday*, April 2019, p. 195-201.

(with Ma Biao) "The use of volume in the measurement of grains in early imperial China", in C. Michel and K. Chemla (eds.), *Mathematics, Administrative and Economic Activities in Ancient Worlds*, Springer, 2020, p. 239-279.

(Cécile Michel and Karine Chemla) "Mathematics, Administrative and Economic Activities in the Ancient Worlds: An Introduction", in C. Michel and K. Chemla (eds.), *Mathematics, Administrative and Economic Activities in Ancient Worlds*, Springer, 2020, p. 1-48.

"Vertige interpretatif", in Mechtild Fend, Anke te Heesen, Christine von Oertzen and Fernando Vidal (eds.), *Surprise. 107 Variations on the unexpected. For Lorraine Daston*, 2019, p. 59-62.

"Reading instructions of the past, classifying, and reclassifying them. Commentaries on the Canon *The Nine Chapters on Mathematical Procedures* from the 3rd to the 13th centuries", *British Journal for the History of Science. Themes*, Special issue entitled *Learning by the Book*, edited by Angela Creager, Mathias Grote and Elaine Leong, 2020, p. 15-37. Can be read online: https://www.cambridge.org/core/journals/bjhs-themes/article/reading-instructions-of-the-past-classifying-them-and-reclassifying-them-commentaries-on-the-canon-the-nine-chapters-on-mathematical-procedures-from-the-third-to-the-thirteenth-centuries/F402B3DE252D1799135618C259E5C706. Can be downloaded from the address: https://www.cambridge.org/core/services/aop-cambridge-core/content/view/F402B3DE252D1799135618C259E5C706/S2058850X20000028a.pdf/reading_instructions_of_the_past_classifying_them_and_reclassifying_them_commentaries_on_the_canon_the_nine_chapters_on_mathematical_procedures_from_the_third_to_the_thirteenth_centuries.pdf. A longer version can be found here: https://halshs.archives-ouvertes.fr/halshs-03101016

"Comment l'activité mathématique façonne sa langue et ses formes textuelles", in Jean-Noël Robert (ed.), *Langue et science, langage et pensée*, Editions Odile Jacob, 2020, p. 283-311. Online: https://halshs.archives-ouvertes.fr/halshs-03101073

"From Reading Rules to Reading Algorithms. Textual Anachronisms in the History of Mathematics and their Effects on Interpretation", in N. Guicciardini (ed.), *Anachronisms in the History of Mathematics*, Cambridge University Press, 2021, p. 42-82.

"Réflexions sur la fabrique de communautés mathématiques imaginées et sur de possibles alternatives", in P.-M. Menger et Pierre Verschueren, *Le Monde des Mathématiques*, Éditions du Seuil, 2023, p. 723-777.
(K. Chemla, in dialogue with Agathe Keller and Christine Proust), "Cultures of computation and quantification in the ancient world: An introduction", in K. Chemla, A. Keller and C. Proust (eds.), *Cultures of computation and quantification in the ancient world*, Springer, 2022, p. 1-140.
"Mathematical Practices and Written Evidence: General Reflections Based on a Historian's Experience", in Bharath Sriraman (gen. ed.), *Handbook of the History and Philosophy of Mathematical Practice*, Springer, 2023, published online at https://link.springer.com/referenceworkentry/10.1007/978-3-030-19071-2_75-1, and book forthcoming.

"Forward… to the nineteenth century", in K. Chemla and R. Netz (eds.), *The Place of Archimedes in World History: Arguments and Counterarguments,* Special Issue of *Interdisciplinary Science Review* (ISR), 47 (n. 3-4), 2022, p. 331-350.

"Introduction: Thirteen scholars reply to Reviel Netz's 'The place of Archimedes in world history'", in K. Chemla and R. Netz (eds.), *The Place of Archimedes in World History: Arguments and Counterarguments,* Special Issue of *Interdisciplinary Science Review* (ISR), 47 (n. 3-4), 2022, p. 295-300.

"How do excavated manuscripts and transmitted canons and commentaries shed light on each other? An outlook from mathematics", *Early China*, 45, 2022, p. 269-301.
"The Dark Side of the History of Proof: Proving the Correctness of Algorithms in the Ancient World", in Bharath Sriraman (gen. ed.), *Handbook of the History and Philosophy of Mathematical*

Practice, Springer, 2023, published online at https://link.springer.com/referenceworkentry/10.1007/978-3-030-19071-2_81-1, and book Forthcoming.

"La fabrique des constantes astronomiques en Chine ancienne : Un indice saisi dans *Le Gnomon des Zhou*", in *Temps, espace et destin : Mélanges offerts à Marc Kalinowski*, edited by Marianne Bujard, Donald Harper, Olivier Venture & Li Guoqiang, Collège de France, Institut des Hautes Études Chinoises, 2023, p. 275-292 and bibliography: 425-461.

"Algebraic work with the "heavenly origin/source" in China, 1st century—13th century", *Ganita Bhāratī,* for George Smith (accepted, forthcoming).

"Démonstration et recherche de généralité en Chine ancienne", *Sciences, circulations, révolutions. Festschrift pour Philippe Nabonnand*, edited by Pierre-Edouard Bour, Manuel Rebuschi & Laurent Rollet, Londres, College Publications, 2023, p. 185-201.

"How do excavated manuscripts and transmitted canons and commentaries shed light on one another? An outlook from mathematics", Special Issue of *Early China,* in honor of Michael Loewe, 2022, p. 269-301.

"Trust in π", in M. Norton Wise, Mary S. Morgan, Emmanuel Didier, Lorraine Daston and Soraya de Chadarevian, *Ted's Numbers*, 2023, pp. 50-55.

Karine Chemla and Agathe Keller, "Shaping the Sciences of the Ancient and Medieval World: An Introduction", in A. Keller & K. Chemla (eds.) *Shaping the Sciences of theAncient and Medieval WorldTextual Criticism, Critical Editionsand Translations of Scholarly Texts in History*, Springer, 2024, 1-68.

"Peoples, Civilisations and Cognate Communities in The Historiography of Numbers and Symbolism: A Critical Approach", Festschrift for Irfan S. Habib, edited by Dhruv Raina (Forthcoming).

"Why print ancient mathematical works in early thirteenth-century China? Bao Huanzhi's edition of mathematical texts of the past", in *Ritual, Learning and Visual Culture in Middle Period China and Byzantium: Ancient Worlds, Medieval Reinventions*, edited by Niels Gaul and Curie Virag, Edinburgh University Press, forthcoming.

"How to Hear the Multiple Voices Composing a Canonical Text and Why That Matters: The Case of *The Nine Chapters on Mathematical Procedures*", Festschrift for Glenn W. Most, edited by Manuel Baumbach, forthcoming.

Belhoste, Bruno, and Karine Chemla, "Mathematics, history of mathematics and Poncelet: the context of the Ecole Polytechnique", in K. Chemla, Jose Ferreiros, Lizhen Ji, Erhard Scholz, and Chang Wang (eds.), *The Richness of the History Mathematics. A Tribute to Jeremy Gray,* Collection *Archimedes*, Springer, 2023, p. 27-62.

Belhoste, Bruno, Karine Chemla, Ideal chords in Poncelet's work, from Saratov notebooks to the *Traité des propriétés projectives des figures*, in Toke Lindegaard Knudsen, Jessica Carter (ds.)*, Episodes from the History of Mathematics: Essays in Honor of Jesper Lützen* De Gruyter, 2024, 47-75.

"Fragments of a History of the Concept of Ideal. Poncelet's and Chasles's reflections on generality in geometry and their impact on Kummer's work with ideal divisors", *SIGMA* 20, 2024, 066, 37 pages, in Denis Auroux, Patrick Foulon, Marc Herzlich, Oussama Hijazi, Andrei Moroianu (eds.), *Special Issue on Differential Geometry Inspired by Mathematical Physics in honor of Jean-Pierre Bourguignon for his 75th birthday*, https://www.emis.de/journals/SIGMA/2024/066/, http://arxiv.org/abs/2307.16234.

2.d For a wider readership (Last twelve years only)

"Matematica e cultura nella Cina antica", in Claudio Bartocci and Piergiorgio Odifreddi eds.), *La matematica*.I.: *I luoghi e i tempi*, Einaudi, 2007, pp. 91-137. A revised version was translated into French by D. Vernerey and appeared as: "Mathématiques et culture. Une approche appuyée sur les sources chinoises les plus anciennes", in Claudio Bartocci and Piergiorgio Odifreddi (eds.), *La mathématique.* 1. *Les lieux et les temps*, Editions du CNRS, 2009, p. 103—152.

"K. Chemla", in P. Pajot (éd.), *Parcours de mathématiciens,* Book Series "*Comment je suis devenue ...*", "Le Cavalier Bleu" Publishing house, 2010, p. 77—94.

"Une figure peut en cacher une autre. Reconstituer une pratique des figures géométriques dans la Chine du XIIIe siècle", *Images des mathématiques*, May 2011, http://images.math.cnrs.fr/Une-figure-peut-en-cacher-une.html.

K. Chemla, Thomas Coudreau and Giuseppe Leo "Observation: pratiques et enjeux", introduction to the book K. Chemla, Thomas Coudreau and Giuseppe Leo (eds.), *Observations: pratiques et enjeux*, Omniscience, 2015, p. 5-16. See online at:
http://www.omniscience.fr/files/2015/02/21/itm0499_Introduction.pdf

Introduction to *Les Neuf Chapitres. Le classique mathématique de la Chine ancienne. Extraits du Neuvième Chapitre.* A book prepared by André Deledicq on the basis of *Les Neuf Chapitres*, Les Classiques Kangourou. ACL-Les Editions du Kangourou, 2013.

"La diversité des cultures mathématiques: un passé et quelques futurs possibles", *Gazette des mathématiciens*, 150, 2016, p. 16-30 (available online at: http://www.smf.emath.fr/files/150-bd.pdf). English translation in *Newsletter de l'EMS*, 104, June 2017, p. 14-24 (http://www.ems-ph.org/journals/newsletter/pdf/2017-06-104.pdf). The English translation has been translated into Chinese: « *shuxue wenhua de duoyuanxing : yi ge guoqu he yixie keneng de weilai* 數學文化的多元性：一個過去和一些可能的未來 », *Shuxue yilin* 數學譯林, 2019, 3, p. 249-261, 274, 203 (in this order).

(with Bruno Belhoste) "A friendship with Hilary", in Roy Cook & Geoffrey Hellman (eds.), *Hilary Putnam on Logic and Mathematics,* Springer, 2018, p. 6-7.

(with Pierre Arnoux, Marc Schoenauer and Georges Skandalis) "Une brève histoire de Jean-Christophe", *Gazette des mathématiciens*, Special issue *Jean-Christophe Yoccoz*, April 2018, p. 17-19.

(with Etienne Ghys) "Jean-Christophe Yoccoz", Eloge, French National Committee for the History and Philosophy of Science and Technology, May 29, 2018. Online at:
http://www.cnfhpst.org/sites/default/files/documents/eloge_Jean-Christophe_Yoccoz.pdf.

"All roads come from China. For a theoretical approach to the history of mathematics", *European Mathematical Society Magazine*, 119, March 2021, p. 23-30. Online at:
https://euromathsoc.org/magazine/issues/119/mag-5#

(Siegmund Probst & Karine Chemla) "Der Wissenschaftler Imre Tóth", in Andreas Becker and Christian Reiß (eds.), *Imre Tóth (1921–2010) und die Institutionalisierung der Wissenschaftsgeschichte an der Universität Regensburg* (Schriftenreihe des Universitätsarchivs Regensburg, Bd. 3), 2021, Regensburg: Universitätsverlag Regensburg, p. 35-45.

"A la recherche des mathématiques en Chine", *L'archicube*, Special issue *Explorer,* 31, December 2021, p. 101-106.

林力娜 (K. Chemla), "Yi wei guowai xuezhe yan zhong de zhongguo shuxueshi xuehui 40 nian—wei qingzhu zhongguo shuxueshi xuehui 40 zhou nian er zuo 一位外国学者眼中的中国数学史学

会 40 年——为庆祝中国数学史学会成立 40 周年而作 （The Chinese Society for the History of Mathematics: 40 years seen with a foreign eye. For the 40th anniversary of the Chinese Society for the History of Mathematics"), Xu Zelin zhubian 徐泽林主编，*Yu gaige kaifang tong xing. Zhongguo shuxueshi shiye 40 nian* 与改革开放同行。中国数学史事业 40 年，东华大学出版社，2021，p. 407-413.

(with Emmylou Haffner) « Un entretien avec Hourya Benis-Sinaceur », *Gazette des Mathématiciens*, 172, April 2022, p. 21-28.

« Sciences chinoise, grecque, arabe : mythes et réalités », Entretien de Karine Chemla par Pierre Crépel, *Cause Commune*, 29, 2022, p. 70-72. En ligne à : https://www.causecommune-larevue.fr/sciences_chinoise_grecque_arabe_mythes_et_r_alit_s

"Sur la diversité des chiffres et des numérations : Instruments de calcul et symboles", in Mokrane Bouzeghoub, Michel Daydé and Christian Jutten (eds.), *Le calcul dans tous ses états. Les modèles et les architectures de calcul* (temporary title), submitted.

2.e Reviews (Last twelve years only)

Review of Charlotte Furth, Judith T. Zeitlin and Ping-chen Hsiung (eds.), *Thinking with cases. Specialist knowledge in Chinese cultural history*, University of Hawai'i Press, 2007, in *Revue de synthèse*, 6e série, 131, 4, 2010, p. 634—637.

Review of Francesca Bray, Vera Dorofeeva-Lichtmann and Georges Métailié (eds.), *Graphics and Texts in the Production of Technical Knowledge in China. The Warp and the Weft*. Brill, 2007, in *Etudes chinoises*, 29, 2010, p. 478—485 (https://www.persee.fr/doc/etchi_0755-5857_2010_num_29_1_951_t16_0478_0000_2).

Essay review de *The Mathematics of Egypt, Mesopotamia, China, India, and Islam. A sourcebook.* Victor J. Katz, Annette Imhausen, Eleanor Robson, Joseph W. Dauben, Kim Plofker, J. Lennart Berggren (eds.), Princeton University Press, 2007, in *Historia Mathematica*, 39, 2012, p. 324-334. https://core.ac.uk/download/pdf/82072959.pdf

Review of Anne Marie Décaillot, *Cantor et la France. Correspondance du mathématicien allemand avec les Français à la fin du XIXe siècle*, Kimé, 2008, in *Historia Mathematica*, 41, 3, 2014, p. 342-344.

Review of Jiri Hudecek, *Reviving Ancient Chinese Mathematics. Mathematics, history and politics in the work of Wu Wen-Tsun*, Routledge, 2014, in *Isis* 107, 4, 2016, p. 894-896.

Review of Tina Su Lyn Lim and Donald B Wagner, *The Continuation of Ancient Mathematics: Wang Xiatong's Jigu suanjing, Algebra and Geometry in 7th Century China*, NIAS Press, 2017, in *T'oung-Pao*, 106, n° 3-4, 2020, p. 466-472.

3. Conferences

3.a Organization of conferences: A sample

Below is a selection of conferences that I organized or co-organized.

(with Eberhard Knobloch and Jeanne Peiffer), Conference "Invention, transmission, réception et transformation des idées mathématiques", MFO, April 24-30, 1994, Oberwolfach.

Conference "Histoire des sciences, histoire du texte", Wissenschaftskolleg and Einstein Forum, March 30-April 2, 1995, Berlin.

(with Eberhard Knobloch and Jeanne Peiffer), Conference "Histoire de la lecture des anciens en mathématiques", CIRM, October 16-20, 1995 (Abstracts publiés dans les *Publications du Centre international de rencontres mathématiques*. Résumés des colloques n° 11, 1995, pp. 177-97), Luminy.

(with Jeanne Peiffer (Centre Koyré)), "Gabarits, patrons, pochoirs et autres modèles. Fabrication, usage et circulation" , IHP, March 23-24, 2001, Paris.

Workshop "Histoire et historiographie de la démonstration mathématique", Columbia University-MSH-REHSEIS, Reidhall, May 17-19, 2002, Paris.

(with Roshdi Rashed), "Writing and rewriting the history of mathematics 1900-2000", Foundation Les Treilles, September 5 -11, 2003, Tourtour.

Conferences "Histoire des savoirs", First Conference: May 24-25, 2004, Central Building of CNRS; Second Conference, December 1-3, 2005, ENS-Rue d'Ulm; Final Conference, November 29 – December 1, 2007, ENS Rue d'Ulm, Paris.

(with Evelyn Fox Keller (MIT & Chaire Blaise Pascal)), Workshop "Styles and cultures", Project "Cultures épistémologiques", REHSEIS, November 10, 2006, Paris.

(with Evelyn Fox Keller (MIT & Institute for Advanced Study, Paris)), Conference "Styles and cultures of scientific practice", Foundation Les Treilles, June 15-21, 2008, Tourtour.

(with Alexander Jones (ISAW)), workshop "The history of ancient mathematical sciences", REHSEIS—NYU, November 24-25, 2008, New York.

(with A. Malet (Pompeu Fabra U., Barcelona) and E. Knobloch (TU Berlin)), Conference "History and philosophy of mathematical notations and symbolism", Mathematisches Forschungsinstitut, October 25-31, 2009, Oberwolfach.

(with Qu Anjing (Northwest University)), Conference "Cultures and elements of practices in mathematics, 1800-1930", Northwest University, August 11-17, 2010, Xi'an.

(with Evelyn Fox Keller (MIT & Institute for Advanced Study)), Workshop "Simplicity as an Epistemological Value in Scientific Practice", Maison Suger, January 8-9, 2010, Paris.

(with Evelyn Fox Keller (MIT)), Conference "Styles and cultures of scientific practice", Foundation Les Treilles, June 20-25, 2011, Tourtour.

(with Tian Miao (IHNS, CAS)), Workshop "On the international history of algebra", Institute for the history of Natural Sciences, Chinese Academy of Science, August 27-31, 2011, Beijing.

Workshop "Tables en Chine", Project ANR "History of numerical tables", SPHERE, Université Paris Diderot, March 22-23, 2012, Paris.

(with Tom Archibald, Pan Liyun and Qu Anjing), Conference "History of modern mathematics II", In honor of Prof. Li Wenlin, Northwest University, May 16-20, 2012, Xi'an.

(with Zhu Yiwen (SAW)), Symposium "Meanings and Uses of Measuring Units in pre-modern China", Congress of the European Association of Chinese Studies, September 5-8, 2012, Paris.

(with Damien Chaussende (CRCAO) and Zhu Yiwen (SAW)), Workshop "Li Chunfeng 李淳風 (602-670), praticien des mathématiques et des sciences astrales à la cour des Tang" and "Les monographies des histoires dynastiques composées dans la Chine des Tang", SPHERE, Université Paris Diderot, November 29, and December 1, 2012, Paris.

(with Lorraine Daston (MPIWG)), Conference "Thinking with tables", Max Planck Institut fuer Wissenschaftsgeschichte, March 12-13, 2012, Berlin.

(with Agathe Keller, Christine Proust and the members of the SAW project), Conference "Cultures of computation and quantification in the ancient world", SPHERE, Université Paris Diderot, March 25-29, 2013, http://sawerc.hypotheses.org/conferences/conference-cultures-of-computation-and-quantification-in-the-ancient-world, which concluded the two month workshop on the same topic (http://sawerc.hypotheses.org/workshops/workshop-cultures-of-computation) , Paris.

(with the members of the SAW project), Conference "Shaping the sciences of the ancient world. Text Criticism, Critical Editions and Translations of ancient and medieval Scholarly Texts (18th-20th century)", SPHERE, Université Paris Diderot, June 17-21, 2013, Paris (http://sawerc.hypotheses.org/conferences/conference-shaping-the-sciences-of-the-ancient-world).

Conference "Circulations et interactions entre domaines des mathématiques aux XIXe et début du XXe siècles", French-Chinese Meeting of early-career researchers, Henri Poincaré Institute, June 27-28, 2014, Paris.

(with the Korean Society for History of Mathematics), Conference "Histoire des équations algébriques", International Congress of Mathematicians, August 2014, Seoul.

(with Qu Anjing (Northwest University)), Conference "Algorithms in the mathematical sciences in the ancient world (International Conference on History of ancient mathematics and astronomy. In Memory of Professor Li Jimin)", SAW & Northwest University, August 24-27, 2015, Xi'an (http://sawerc.hypotheses.org/conferences/international-conference-on-history-of-ancient-mathematics-and-astronomy-2015).

(with the members of the SAW project), Conference "Shaping the sciences of the past", SPHERE, Université Paris Diderot, December 1-4, 2014, Paris (http://sawerc.hypotheses.org/workshops/workshop-history-of-critical-editions).

(with Matthieu Husson, Agathe Keller, Christine Proust and the members of the SAW project), Conference "Mathematical practices in relation to the astral sciences", SPHERE, Université Paris Diderot, March 26-31, 2015, Paris, http://sawerc.hypotheses.org/conferences/conference-mathematical-practices-in-relation-to-the-astral-sciences, which concluded the two month workshop on the same topic (http://sawerc.hypotheses.org/workshops/three-day-meeting-how-do-writings-in-the-astral-sciences-document-mathematical-practices-and-the-practitioners).

Conference "Reflecting on the fragmentation of the field of the history of science and technology. Perspectives from Europe", European Society for the History of Science, November 5-7, 2015, Paris.

Symposium "Historical and theoretical approaches to comparison in the history of ancient science", History of Science Society, November 19-22, 2015, San Francisco.

(with Lorraine Daston, Mark Geller and Glenn Most), Workshop "Commentaries for Teaching and Research in Medicine and Mathematical Sciences", Max Planck Institute, August 25-27, 2016, Berlin.

(with the SAW group and the Center for the study of manuscript cultures, Hamburg Universität (CSMC)), Conference "Mistakes and the study of manuscripts", SPHERE, Université Paris Diderot, May 2-3, 2016, Paris (http://sawerc.hypotheses.org/conferences/conference-on-mistakes-and-the-study-of-manuscripts-2016).

(with Petr Svobodny and Milada Sekyrkova (Charles University), Bi-annual Conference of the European Society for the History of Science, "Science and Power. Science as Power", September 22-24, 2016, Prague (http://7eshs2016.guarant.eu/files/eshs-2016-book-of-abstracts.pdf).

(with Agathe Keller, Christine Proust and the members of the SAW project), Conference "Writing histories of ancient mathematics – Reflecting on past practices and opening the future, 18th – 21st centuries", SPHERE, Université Paris Diderot, October 24-28, 2016, Paris (http://sawerc.hypotheses.org/conferences/conference-octobre-2016), which concluded the two month workshop on the same topic (http://sawerc.hypotheses.org/workshops/writinghistancmath-septoct16).

(with Emmylou Haffner, Gerhard Heinzmann, Marco Panza and David Rabouin), Conference in honor of Hourya Benis Sinaceur, ENS Ulm-Paris 1-Panthéon-Sorbonne, June 15-17, 2017, Paris.

(with Kenji Ito), symposium "Historical inquiry & intellectual transmission: How shall we write about how knowledge travels?", 25th International Congress of History of Science and Technology, July 23-29, 2017, Rio de Janeiro.

(with Lorraine Daston, Mark Geller and Glenn Most) "Commentaries for Teaching and Research in Medicine and Mathematical Sciences" Organization of an authors' workshop, Max Planck Institute, August, 1-15, 2017, to prepare the book deriving from the project.

(with Olival Freire and Yves Gingras), Symposium "How the sources of funding can affect the results of research and contribute to the disunity of knowledge", Conference of the European Society for the History of Science September 14-17, 2018, London.

Member of the Scientific Committee of the "International Conference on Traditional Sciences in Asia 2017: East-West Encounter in the Science of Heaven and Earth", October 25-28, 2017, Kyoto.

(with Matthieu Husson, Agathe Keller, Christine Proust) Conference "Practices of reasoning", SPHERE, Université Paris Diderot, December 4-7, 2017 (http://sawerc.hypotheses.org/conferences/reasoning-2017. The abstracts can be found at: https://f-origin.hypotheses.org/wp-content/blogs.dir/946/files/2017/12/prog-reasoning-dec2017.pdf).

(with Gilles Dowek), one day workshop "Logique et philosophie des sciences : quels présents et quels futurs ?", French National Committee for the History and Philosophy of Science and Technology, June 18, 2018, Paris (http://www.cnfhpst.org/journee-de-reflexion-logique-et-philosophie-des-sciences).

Member of the Scientific Committee of the Conference of the European Society for the History of Science, 14-17 September 2018, London.

(with Lorraine Daston) Workshop on the epistemological value of simplicity, Max Planck Institute for the History of Science, October 12-13 2018, Berlin.

(with Agathe Keller and Christine Proust), Conference "On cultures of scientific practice in ancient mathematical sciences. Historical and historiographic approaches", SPHERE, Université Paris Diderot, 10-13 April 2019, Paris (https://sawerc.hypotheses.org/conferences/cultures-scientific-practise-april19).

(with Agathe Keller), Conference "H.T. Colebrooke and historiographies of sciences in Sanskrit", SPHERE, Université Paris Diderot, 15-16 April 2019, Paris (https://sawerc.hypotheses.org/conferences/colebrooke).

(with Philip Beeley, Sally Humphreys, Agathe Keller, Yelda Nasifoglu, Benjamin Wardhaugh), Conference "Reading the Classics of Science: historical and anthropological perspectives" (SPHERE, University of Oxford & Maison Française d'Oxford), June, 3-4, 2019, Oxford.

Member of the International Advisory Committee & (with Guo Shirong (Inner Mongolia Normal University) and Zhu Yiwen (Sun Yat-Sen University), Two panels, "The diversity of mathematical practices in East Asia, and their historiography. Panel-1 and Panel-2", 15th International Conference on the History of Science in East Asia (ICHSEA 2019), August 19-23, 2019, Jeonju, Korea.

(with Nina Atanasova, Karine Chemla, Vitaly Pronskikh and Peeter Müürsepp), Symposium for the commission IASCUD "Communication and exchanges among scientific cultures", International Conference of Logic, Methodology and Philosophy of Science and Technology, August 5-10, 2019, Prague.

Co-Chair of the After Kant subcommittee, Biennal conference of the Society HOPOS (History of Philosophy of Science) 2020 (2018-2020), Singapore (cancelled).

Member of the Scientific Committee of the Conference of the European Society for the History of Science, August 31-September 3, 2020, Bologna. Symposium organized with Adeline Reynaud (4 sessions) on the theme: "Visual and material cultures in the mathematics of the ancient world". Symposium organized for the scientific section IASCUD of the DHST-DLMPST (2 sessions) on the theme: "How can the description of visual and material practices contribute to a better understanding of scientific cultures? – 1. Mathematical cultures. 2. Scientific Cultures".

(with Toni Malet and Vincenzo de Risi) Workshop "Mathematics and its Ancient Classics worldwide: Translations, Appropriations, Reconstructions, Roles", Mathematisches Forschungsinstitut Oberwolfach, 30 May - 5 June 2021.

(with Erwin Neuenschwander) Symposium "The shaping of differences in the historiography of ancient mathematics", Symposium organized for the scientific section IASCUD of the DHST-DLMPST (2 sessions), 26th International Congress of History of Science and Technology, Prague, July 25-31, 2021.

Member of the Program Committee of The 24th biennial conference of the European Association for Chinese Studies (EACS), Olomuc (Czech Republic), August 24-27, 2022. Organization, with Florence Bretelle-Establet, of a symposium titled "Textual Issues in the History of Science, Textual Issues through Scientific Sources" (https://easychair.org/smart-program/EACS2022/2022-08-24.html#talk:194789)

Member of the Scientific Committee of the Tenth Biannual Conference of the European Society for the History of Science, Brussels, September 7-10, 2022.

Workshop co-organized with Minhyong Kim, on "A Global History of Mathematics: An Urgent Human Concern", October 24-25, 2022. International Center for Mathematical Sciences, Bayes Center, Edinburgh.

Workshop "Around Brill and Noether's Report on Algebraic Functions", co-organized with Patrick Popescu-Pampu, Nicolas Michel, and Pablo Portilla, University of Lille, December 12-16, 2022. https://brill-noether.github.io/index.html

Workshop co-organized with Agathe Keller and Minhyong Kim, on "Arithmetic, Algebra, and their Relation to Geometry: A Global Approach", 21-25 August 2023. Korean Institute for Advanced Study, Seoul (http://events.kias.re.kr/h/AARGGIA/?pageNo=5046).

Workshop co-organized with Nicolas Michel, Norbert Schappacher and Paul-Emmanuel Timotei, on "Around Brill and Noether's Report on Algebraic Functions—2", Centre International de Rencontres Mathématiques, 30 October-3 November 2023.

History of Mathematics Workshop co-organized with Ladislav Kvasz, David Rabouin and Arilès Remaki, for the eightiest birthday of Eberhard Knobloch, Paris, 6-7 November 2023.

Member of the Scientific Committee of the Conference of the European Society for the History of Science, Barcelona, 4-7 September 2024.

3.b Lectures (Last twelve years only)

(Invited lecture) "How tacit is tacit knowledge? Or: Looking for sources to approach tacit knowledge", Conference "Explicit versus tacit knowledge in mathematics", organized par J. Peiffer, N. Schappacher, and T. Archibald, January 8-14, 2012, Oberwolfach.

"Tables in ancient Chinese mathematical writings. From textual tables to diagrammatic tables", Workshop "History of Numerical Tables", MPIWG (Department II, L. Daston), March 12-13, 2012, Berlin.

"Contextualizing and Historicizing Generality as an Epistemological Value", Conference "History of modern mathematics II", In honor of Prof. Li Wenlin, May 16-20, 2012, Xi'an.

(Invited lecture) "Observing mathematical practices as a key to mining our sources and conducting conceptual history. Division in ancient China as a Case study", Conference "Rethinking Science after the Practice Turn", organized by Léna Soler and the team of PratiSciens, June 19-20, 2012, Nancy.

(Plenary lecture) "Rethinking computation: The outline of a research program", Third Young Researchers Days in Logic, Philosophy and History of Science, Belgian Society of Logic and Philosophy of Science, Royal Academy, September 3-4, 2012, Brussels.

"Approaching the scientific work at play in the analysis of standard measuring vessel in ancient China (3rd—7th centuries)", Symposium, Conference of the European Association of Chinese Studies (EACS), September 5-8, 2012, Paris.

(Keynote speaker) "The meaning of parts in mathematical texts. The example of chapters in mathematical writings from ancient China", Conference Mathematical Cultures, September 10-12, 2012, London. Online at: http://www.youtube.com/watch?v=9Vy_Te9aNgk

"Towards a history of the historiography of circulation of knowledge", In IASCUD Symposium "Writing Cultural Identity and Trans-Nationality in the History of Science: Methodological Challenges", European Society for the History of Science, November 1-3, 2012, Athens.

(Keynote speaker) "Practices of abstraction as features of a mathematical culture. Views from ancient China", Conference "Cultures of mathematics and logic", Sun Yatsen University, November 9-12, 2012, Canton.

"Working on and with division in early China", SAW Conference "Cultures of computation and quantification", March 25-29, 2013, Paris.

(with Ma Biao) "Measuring grains in early China", SAW Conference "Cultures of computation and quantification", March 25-29, 2013, Paris.

(Invited lecture) "The composition of commentaries on classics in the light of newly excavated mathematical manuscripts", Conference "Reading the Signs, Language of prognostication in Chinese history", organized in the International Consortium for Research in the Humanities, Friedrich-Alexander Universität, May 30-31, 2013, Erlangen.

(Invited lecture) "Cause et abstraction dans une pratique mathématique de la Chine ancienne", Conference "Liens de causalité. Divination et autres enquêtes sur la nature et les hommes", in honor of Geoffrey Lloyd, EHESS, June 6-7, 2013, Paris.

"Parts in Chinese mathematical texts. Interpreting the chapter form of *The Nine Chapters on Mathematical Procedures*", SAW Conference "Parts and Pieces: an Exploration of the Textuality of Scientific Writings", organized by F. Bretelle-Establet and S. Schmitt, July 3-4, 2013, Paris.

"The diversity of mathematical cultures in ancient China", International Congress of the History of Science, Technology and Medicine, July 24-28, 2013, Manchester.

"Research in the History and Philosophy of Science in France", Conference of the European Society for History of Science, organized by F. Bevilacqua, October 31-November 2, 2013, Florence, Italy.

(Invited lecture) "The use of mathematics in the measurement and management of grains as a means of payment in ancient China", Workshop "Historical Perspectives on Mathematics As a Tool", November 13-15, 2013, ZiF, Bielefeld.

(Plenary lecture) "Eléments d'histoire des pratiques mathématiques et leur impact sur l'historiographie", Congress of the French Society for the History of Science and Technology, April 28-30, 2014, Lyon. On line: http://www.youtube.com/watch?v=3EuLT3F2zMk, http://www.youtube.com/watch?v=-_u1YahG9-Y, http://www.youtube.com/watch?v=EWZWdC87xNo.

(Plenary lecture, with Daniel Morgan) "Math lessons: Towards an interdisciplinary approach to an early Chinese manuscript culture", Workshop organized conjointly by the Hamburg Center for the Study of Manuscript Cultures and the SAW project, May 8-10, 2014, Hamburg.

"L'histoire des sciences dans la sinologie des débuts du XIXe siècle: Biot père et fils", Conference "Jean-Pierre Abel-Rémusat et ses successeurs. Deux cents ans de sinologie française en France et en Chine / 中法汉学之间两世纪的交流：中法合办法兰西学院雷慕沙讲座两百周年纪念学术研讨会", organized by P. E. Will, Collège de France, June 11-13, 2014, Paris. Online at: http://www.college-de-france.fr/site/pierre-etienne-will/symposium-2014-06-11-17h00.htm.

(Invited lecture) "Mathematical Cultures and the Interpretation of Ancient Texts", American Mathematical Society and Israel Mathematical Union Joint meeting, June 16-19, 2014, Tel Aviv.

(Invited lecture) "Proving and searching for the cause: some reflections inspired by mathematical writings from Ancient China", Invited Presidential panel on proof/justification in mathematics, organized by Janet Folina and Elaine Landry, jointly sponsored by HOPOS and PMA (Philosophy of Mathematics Association), HOPOS, July, 3-6 2014, Ghent.

"Equations as written diagrams and diagrammatic formulas. Mathematical Cultures and the Interpretation of Ancient Texts", International Congress of Mathematicians, August 13-21, 2014, Seoul.

(Plenary lecture) "Transformations of division in early imperial China and their historical significance", Satellite Conference of the International Congress of Mathematicians 2014, "Traditional Mathematics of East Asia and Related Topics", Ochanomizu University, August 25-30, 2014, Tokyo, Japan.

(Plenary lecture) "Prescribing mathematical action: a nanohistorical approach to communication", Congress of the European Society for the History of Science (http://eshs2014.ciuhct.com/programme.html), September 4-6, 2014, Lisbon.

(Invited lecture) "*Measuring the circle on the sea-mirror*: Revisiting the first talk I gave with Jeremy in the audience (CIRM, 1983)", Conference to honor Jeremy Gray, September 11-12, 2014, Milton Keynes.

"Proving and searching for the cause: Reflections inspired by ancient and modern mathematical writings", Conference "Contemporary research in the history of modern mathematics and applications to pedagogy", September 20-24, 2014, Hangzhou.

(Invited lecture) "Writing abstractly in mathematical texts from early imperial China", Conference "Technical Arts and Historical Writing in Early China", organized by Mark Csikszentmihalyi and Michael Nylan, November 6-8, 2014, Berkeley.

(with Li Liang) "Progressions, motions and changes in the astral sciences of ancient China", SAW Conference "Mathematical practices in relation to the astral sciences", March 26-31, 2015, Paris.

"Conjunctions between the sun and the moon, and pursuit problems. Mathematical reasoning in Chinese writings on astral sciences", SAW Conference "Mathematical practices in relation to the astral sciences", March 26-31, 2015, Paris.

Conclusions of the workshop "Case studies in mathematical practices", organized by Ken Manders and Douglas Marshall, SPHERE, Paris, June 29-July 4, 2015.

(Invited lecture) "In which sense can we speak of mathematics and culture in ancient China?", Symposium "Features of Representative Scientific Systems in the History of Science and Their Mutual Influences", Institute of Basic Theory of Traditional Chinese Medicine, China Academy of Chinese Medical Sciences, and Needham Research Institute (NRI), Cambridge, August 15-17, 2015, Beijing.

"Mathematical reasoning and computation in the early astral sciences in Chinese", International Conference on History of Ancient Mathematics and Astronomy. In Memory of Professor Li Jimin (1938-1993). Topic: "Algorithms in the mathematical sciences in the ancient world", Northwest University, August 24 – 27, 2015, Xi'an, China.

(Plenary lecture) "The use of algorithms in early Chinese astral sciences", Ninth Conference of the Society for the History of Mathematics in China, 第九届全国数学史学会年会, Sun Yatsen University, October 10-12, 2015, Canton.

"Comparisons in early historiographies of mathematics in ancient China", Symposium "Historical and theoretical approaches to comparison in the history of ancient science", History of Science Society, November 19-22, 2015, San Francisco.

(Plenary lecture) "Generality as a value in various epistemological cultures", Conference of the HOPOS (History of philosophy of science) Society, Minneapolis, June 23-25, 2016.

(Plenary lecture) "How has one and how could have one approached the diversity of mathematical cultures? », European Congress of Mathematicians, July 18-22, 2016, Berlin. Online at: https://www.youtube.com/watch?v=cK6-T1-muYY

"Values in the historiography of mathematics and the "measure" of "peoples." The case of 19th century historiographies of mathematics in ancient China", Symposium "The power of the historiography of science", organized by Z. Chen, J. Hudecek and M. Schneider, Biannual conference of the European Society for the History of Science, "Science and Power. Science as Power", September 22-24, 2016,

Prague.

(Plenary lecture) "Writing the history of ancient mathematics in China and beyond in the 19th century: who? for whom?, and how?", Conference "Making of the Humanities V", Johns Hopkins University, October 5-7, 2016, Baltimore.

Martina Schneider and K. Chemla, "The reception of Wylie's 1852 *Jottings* in 19th century Europe", SAW Conference "Writing histories of ancient mathematics – Reflecting on past practices and opening the future, 18th – 21st centuries", October 24-28, 2016, Paris.

Mizuno Hiromi and K. Chemla, "Mikami Yoshio (1875-1950): From the philosophy of mathematics to cultural history of mathematics", SAW Conference "Writing histories of ancient mathematics – Reflecting on past practices and opening the future, 18th – 21st centuries", October 24-28, 2016, Paris.

(Invited lecture) "Revisiting the use of colors in diagrams from Chinese sources Song-Yuan writings on equations", Conference "Visual representation in science and technology", National Tsing Hua University, organized by Hsien-chun Wang, Hsiang-ke Chao, Alexei Volkov, November 24-25, 2016, Hsinchu, Taiwan.

(Invited lecture) "The diagram is the proof: The correctness of algorithms in 11th century China", Interdisciplinary Workshop "Tools of Reason: The Practice of Scientific Diagramming from Antiquity to the Present", organized by Paula Findlen, Greg Priest and Silvia De Toffoli, February 10-11, 2017, Stanford Humanities Center.

(Invited lecture) "Positions and computations in China and beyond", Conference for the 60th anniversary of the Institute for the History of Natural Sciences, "China and the World in the Global History of Science and Technology", May 30—June 1, 2017.

(Invited lecture) "Different clusters of text from ancient China, different mathematical ontologies", "Science in the forest, Science in the past: clash of ontologies and problems of translation", Workshop organized by Geoffrey Lloyd (Darwin College, Cambridge), Aparecida Vilaça (Museu Nacional, UFRJ, Brazil), Mauro Almeida (Unicamp, São Paulo), & Manuela Carneiro da Cunha (USP, São Paulo & University of Chicago, USA), Cambridge University, May 31—June 2, 2017.

Contribution at the round table "History and Philosophy of Mathematics in the 19th century", Conference in honor of Hourya Benis Sinaceur, June 15-17, 2017.

(Invited lecture, with Daniel Morgan), "Should headings of sections in *Writings on mathematics* 筭數書 (before *ca.* 186 BCE) be interpreted as a curriculum?", Symposium "Specificities of scientific or scholarly documents as a reflection of curricula", organized by Carlos Goncalves, Christine Proust and Alexei Volkov, 25th International Congress of History of Science and Technology, Rio, July 23-29, 2017. Abstract : https://halshs.archives-ouvertes.fr/halshs-01406453

Commentary on the symposium organized by Angela Creager and Mathias Grote, "Knowledge by the Book: Manuals in the History of Science", 25th International Congress of History of Science and Technology, Rio, July 23-29, 2017.

(with Zhu Yiwen) "Contrasting mathematical commentaries on mathematical canons and on Confucian canons", Workshop "Commentaries on mathematical texts in a comparative perspective", organized by K. Chemla, L. Daston, M. Geller and G. Most, Max Planck Institut für Wissenschaftsgeschichte, August 1-15, 2017.

(Invited lecture) "What is at stake in bridging the history of mathematics and the history of the astral sciences? An approach from the perspective of mathematical practices", Conference for launching the ERC Project ALFA, organized by Matthieu Husson and al., September 27-29, 2017.

(Invited lecture) "Abraham Moles vu d'une perspective d'histoire des sciences", Conference "Abraham Moles, l'école de Strasbourg", Strasbourg University, September 28-29, 2017, online at: https://www.canal-u.tv/video/uds/theorie_des_actes_nouvelles_applications_nouvelles_lectures.37847.

 (Featured speaker) "Elements of a history of ideality in mathematics", Midwest PhilMath Workshop (MWPMW 18), University of Notre Dame, October 13-15, 2017.

(Invited lecture) "Algorithms for human beings, algorithms for machines. Views inspired by the chewing of ancient texts", Workshop "The intelligence of algorithms", organized by Lorraine Daston and David Sepkoski, Max Planck Institute, Berlin, October 19-21, 2017.

(Invited lecture) « The Motley Practices of Generality in Various Epistemological Cultures », Hans Rausing Lecture 2017, http://www.idehist.uu.se/office-for-history-of-science/hans-rausing-lectures/hans-rausing-lecture-2017/#Abstract.

"La diversité des cultures : approches et enjeux", Workshop in homage to Simha Arom, "Simha Arom : ethnomusicologie, musicologie et création musicale", Department of Musicology and Analysis, Conservatoire National Supérieur de Musique, February 1st, 2018.

Contribution to the round table "Défendre et promouvoir la démarche scientifique", Conference in homage to Jean-Pierre Kahane, organized by the French Communist Party, April 7, 2018.

(Invited lecturer) « Reading problems as problems, books as books, and the like. Discussing a widespread and yet little-discussed form of anachronism in the history of mathematics and beyond », Conference "Anachronism(s) in the history of mathematics", organized by Niccolo Guicciardini, for the award of the Bacon Prize, California Institute of Technology, Caltech. Division of the Humanities and Social Sciences, April 13-14, 2018.

(Invited lecture) "Reading and (Re-)Classifying Canonical Instructions of the Past: Commentaries on *The Nine Chapters on Mathematical Procedures* from the 3rd to the 13th Centuries", Conference "Learning by the book", Princeton University, June 6-10, 2018 (Talk given by teleconference). Text for the Blog of the conference, *History of Knowledge*, 5 June 2018, https://historyofknowledge.net/2018/06/05/reading-and-re-classifying-canonical-instructions-of-the-past-commentaries-on-the-nine-chapters-on-mathematical-procedures-from-the-3rd-to-the-13th-centuries/. All contributions are online at: https://historyofknowledge.net/lbtb/.

(keynote lecture) "Quantities, standards, measurement and computation. Views from mathematical sources from the ancient world", Conference "Measurement at the crossroads", organized by Nadine de Courtenay, Fabien Grégis, and Christine Proust, June 26-29, 2018, University Paris Diderot, https://measurement2018.sciencesconf.org/resource/page/id/3.

(Invited lecture), "Equations, representations and proofs in 13th century China", Workshop "Proofs and Representations", Conference organized by Marianna Antonutti and Dirk Schlimm, Munich Center for mathematical philosophy, July 6-8, 2018.

(Invited lecture) "Needham and the issue of Chinese as a language for science. Taking a linguistic turn materially", Workshop "Joseph Needham: A second look", organized by Dagmar Schaefer and Florence Hsia, Max Planck Institute for the History of Science, August, 3, 2018.

(Invited lecture) "A philological and historical approach to *The Gnomon of the Zhou* (周髀 *Zhou bi*). Mathematical practices in the astral sciences in early imperial China », Biennal Conference of the European Society for the History of Science, September 14-17, 2018, London, Symposium "Stabilities and innovations in the astral sciences: perspectives from Chinese, Sanskrit, Arabic, and Latin sources", organized by Matthieu Husson, Li Liang and A.J. Misra.

(keynote lecture) "Computing with positions, computing with tables in ancient China", Conference in honor of Jean-Paul van Bendegem, for his retirement, September 28-29, 2018, Vrije Universiteit Brussels.

"Simple, easy, economical and simplified: How do the early Chinese canonical literature in mathematics testify to the practice of these values?", workshop on the epistemological value of simplicity, co-organized with Lorraine Daston, October 12-13, 2018, Max Planck Institute for the History of Science.

(Invited lecture) "Comment l'activité mathématique façonne sa langue et ses formes textuelles", Colloque for the opening of the year, Collège de France, October 18-19, 2018, "Langue et science, langage et pensée". Video online at: https://www.college-de-france.fr/site/colloque-2018/symposium-2018-10-19-16h50.htm

(Invited lecture: PAN Shuyuan and Karine Chemla) "The Insertion of Added Material into the Translation of the First Six Books of Euclid's *Elements* into Chinese: a First Approach", Workshop "Euclid on the Road: Cross-Cultural Transmission, Translation and Transformation of the *Elements*", organized by Vincenzo de Risi, MPIWG, Berlin, October 29, 2018.

(Invited lecture) "Shedding light on the emergence of a symbolic notation for and work with polynomials in 13th century China", Conference organized in honor of Ken Manders, on the occasion of his retirement, Pittsburgh University, November 10, 2018.

(Plenary lecture) "Fragments of a history of the concept of ideal. Poncelet and Chasles' reflections on generality in geometry and their impact on Kummer's work with ideal divisors", 29th Novembertagung on the History of Mathematics, "History of mathematical concepts and conceptual history of mathematics", 28-30 November 2018, Sevilla, Spain.

(with Hiromi Mizuno) "D. E. Smith and Mikami Yoshio's *A History of Japanese Mathematics: An Unequal Cooperation in the Making of the History of Mathematics*", Conference "David Eugene Smith and the historiography of mathematics", University Paris Diderot, 9-10 January, 2019.

(Invited lecture) "On Numbers as Formulas", Conference "Philosophy in Mathematics: Purity and Idealization. A Conference in Honor of Mic Detlefsen", organized by Tim Bays, Patricia Blanchette and Curtis Franks, Notre Dame University, March 22-23, 2019. (Talk given by teleconference)

"Mathematical practices with problems in ancient China. Commentaries on the "rule of double false position" (盈不足術) of *The Nine Chapters on Mathematical Procedures* from the 3rd to the 13th Centuries", Conference "Mathematical Cultures: History and Historiography", organized by the SAW group, University Paris Diderot, 10-13 April 2019.

(Invited lecture) "Wu Wenjun's talk at the 1986 International Congress of Mathematicians and the understanding of Qin Jiushao's treatment of the 'Chinese remainder theorem'", International Forum on Mathematics and History of Mathematics, Dedicated to the l00th Birthday of Wen-tsun WU, organized by Ji Zhigang et al., Jiaotong University, Shanghai, May 9-10, 2019.

(Plenary lecture) "Reading diagrams from ancient Chinese mathematical texts: Liu Yi's 劉益 *Discussing the Source of the Ancient (Methods) 議古根源*", Tenth Meeting of the Chinese Society for the History of Mathematics, organized by Ji Zhigang et al., Shanghai, May, 11-12, 2019 (in Chinese).

(Invited lecture) "Performing computations and texts of procedures", Workshop "Performing (with) manuscripts", organized by Matthieu Husson et al., Center for the Study of Manuscript Cultures (Hamburg) and ERC project ALFA-Paris Observatory, May 20-23, 2019.

"The history of reading and the interpretation of a classic: Reading a problem, reading a procedure, reading the organisation in *The Nine Chapters*", Conference "Reading the Classics of Science:

historical and anthropological perspectives", organized by SPHERE, University of Oxford & Maison Française d'Oxford, Oxford, June, 3-4, 2019.

(Invited lecture, keynote panel) "Science and philosophy in China", 21st International Conference on Chinese Philosophy, International Society for Chinese Philosophy, 2019 Congress, "Reality, Argumentation, and Persuasion: Metaphysical Explorations and Epistemological Engagements in Chinese Philosophy", organized by Richard King, University of Berne, Institute of Philosophy, Berne, Switzerland, July 2-5, 2019.

(Invited lecture) "Comparing the geometric style and algebraic style of establishing equations in China, 11th-13th centuries", CLMPST Congress, Symposium "Styles in Mathematics", organized by Erick Reck and Georg Schiemer, Prague, August 5-10, 2019.

"Division and Multiplication as opposed processes of computation in Qin Jiushao's *Mathematical Writings in Nine Chapters*", contribution to the symposium organized with Guo Shirong (Inner Mongolia Normal University) and Zhu Yiwen (Sun Yat-Sen University) « The diversity of mathematical practices in East Asia, and their historiography. Panel-1 and Panel-2 », 15th International Conference for the History of East Asian Science (ICHEAS2019), Jeonju, Korea, 19-23 August 2019.

(keynote speaker), "Mathematical cultures in flux and the reshaping of language games. Views from China," European Society for the History of Science, First Young Scholars Conference, "Transcultural knowledge," Paris Observatory, September 10-12, 2019.

(Invited lecture) "Unexpected forms of narrative in mathematical proofs. What is at stake in proofs from third century China?", Workshop "Narrative and Mathematical Argument", organized by Dominic Berry and Mary S. Morgan, London School of Economics, September 28, 2019.

(Invited lecture) "Is looking for standard notations a historiographic trap? A perspective from ancient Chinese sources", Conference "Measuring: Practices, Publics and Politics in doing History of Mathematical Practices", January 23-24, 2020, ETH Zurich.
https://video.ethz.ch/events/2020/measuring/98215dd6-34e6-4cb9-9787-6f121d450511.html

(Invited lecture) "Reflections on How Practices of comparison in the History of Science have Shaped Geographies of Truths", Workshop of the London Historiography of Philosophy Working Group, organized by Matt Hare, Marie-Louise Krogh and Daniel Whistler, on "*The Geography of Truths: Nations, Territories and the History of Philosophy*", British Society of the History of Philosophy, March 12, 2020.

"From material objects to diagrams. Counting rods in China between the first and the thirteenth centuries CE", Conference of the European Society for the History of Science, August 31-September 3, 2020, Bologna. Symposium organized with Adeline Reynaud on the theme: "Visual and material cultures in the mathematics of the ancient world".

(Invited Contribution) "Nations, Cultures, Civilizations, and the Practice of Comparative History of Science in the Ancient World", Early Sciences Forum (ESF), History of Science Society, Panel "Revisiting Master Narratives", organized by Anne-Laurence Caudano and Hannah Marcus, 8 October 2020.

"Positive and negative in China, 1st—13th century CE: From algorithmic marks to numbers", Meeting organized by M. Husson and A. Keller (online), to prepare a special issue *Historia Mathematica* on the topic of "Positive and negative numbers", 2-3 March 2021.

(Plenary lecture for the Otto Neugebauer Prize) "On how mathematicians' historical and philosophical reflections have been essential to the advancement of mathematics: A historical perspective", 8th European Congress of Mathematicians, Portoroz (Slovenia), 24 June 2021. Online at:
https://www.youtube.com/watch?v=9vHWbHgqb9I

(Keynote address), "Exchange of Knowledge between literate cultures seen from the perspective of ancient mathematics", Conference "Exchange of knowledge between literate cultures", organized by Robert Middeke-Conlin and AJ Misra, Department of Cross Cultural and Regional Studies, Copenhagen, 19-21 July 2021 (online at: https://ccrs.ku.dk/research-data/exchange-of-knowledge-between-literate-cultures-presentations/).

"Mathematical cultures according to observers and to actors. The historiography of number systems and arithmetic", Symposium "New perspectives: differentiating cultures in ancient mathematics", organized by Agathe Keller and Zheng Fanglei, in the context of the scientific section IASCUD (DHST-DLMPST), 26th International Congress of History of Science and Technology, Prague, July 25-31, 2021.

"Shedding light on a Formal Structure in the *Jiuzhang suanshu* 九章算術 (*The Nine Chapters on Mathematical Procedures*)", Panel "Non-linear Structures in Ancient Chinese Mathematical and Cosmographical Treatises", Organised by Vera Dorofeeva-Lichtmann, Conference of the European Association of Chinese Studies, Leipzig, 25-29 August 2020 (postponed to 24 August 2021 because of the pandemic).

(keynote address) "Histories of numbers", for the meeting "Numbers in different languages and cultures", Gresham College, The Annual British Society for the History of Mathematics Gresham College Lecture, Museum of London, London, 20 October 2021. The transcript can be downloaded from here: https://s3-eu-west-1.amazonaws.com/content.gresham.ac.uk/data/binary/3642/2021-10-20-1600_CHEMLA_BSHM-T.pdf. The documents projected during the talk are here: https://s3-eu-west-1.amazonaws.com/content.gresham.ac.uk/data/binary/3644/2021-10-20-1600_CHEMLA_BSHM-P.pdf. The talk is here: https://www.gresham.ac.uk/lectures-and-events/numbers-cultures

(Plenary lecture with Bruno Belhoste) "History of Mathematics as a Mathematician's Activity in the Napoleonic Era", 20th Congress of the Italian Society for the History of Mathematics, 11 November 2021 (https://www.youtube.com/watch?v=-UBTJ4coDsA).

(keynote speaker) "A Historical Approach To Formal Practices In Mathematics and Some Consequences. Views From Numerical Notations In The Far East", Conference "Inceptiones et Receptiones 2022: Ethnological, philological, and historical approaches to Logic and Mathematics", Société péruvienne d'épistémologie et de logique (SPEL), 10-15 January 2022.

(plenary lecture) "Diversity in the history of mathematics, but how?", Conference "Mathematics: Inclusive or Exclusive? Putting colour, culture and context into the curriculum", London, British Society for the History of Mathematics, London Mathematical Society, and other bodies, 25 January 2022.

(invited lecture) "Échanges orageux avec Imre Toth sur la diversité des mathématiques", Conference "Omagio a Imre Toth", Messina, 2-3 February 2022.

(invited lecture) "Why edit ancient mathematical texts in early thirteenth century China? Bao Huanzhi's edition of *The Nine Chapters, The Gnomon of the Zhou* and other texts of the past", Conference 'Classical Antiquity in Byzantium and Middle Period China: Revivals and Reinventions in Visual and Intellectual Culture', organized by Curie Virág & Niels Gaul, ERC Project Paixue, Edinburgh, 10-12 May 2022.

"Thinking about "categories *lei* 類" in Chinese mathematical sources from the 2nd century BCE to the 3rd century CE", Conference HOPOS, Irvine University, within a symposium on "Philosophical reflections with and on mathematics in China", co-organized by Pan Shuyuan, Zhu Yiwen and myself, 20-24 June 2022.

(invited lecture) "How to Hear the Multiple Voices Composing a Canonical Text: The Case of *The Nine Chapters on Mathematical Procedures*", Conference "Co-Authorship. Papers in Honour of Glenn W. Most", organized by Manuel Baumbach, 14 — 16 July 2022, Ruhr-Universität Bochum.

"Reading dots in Chinese manuscripts thanks to mathematics", Panel "Textual Issues in the History of Science, Textual Issues through Scientific Sources", organized by Florence Bretelle-Establet and myself, Conference of the European Association of Chinese Studies, Olomouc, 24-27 August 2022.

(invited lecture) "Éléments d'histoire de l'antiquité mathématique", Conference "Usages Identitaires de l'Antiquité", organized by Florence Dupont, 31 August-3 September 2022, Geneva.

(invited lecture) "Joseph Delambre's Historiography of 'Oriental Astronomy'", in the symposium "Astronomers' histories of astronomy: Practices around the Paris Observatory (18th-19th centuries)", organized by Giorgio Matteoli (U. Turin), Matthieu Husson and Christophe Schmit (CNRS-SYRTE), Conference of the European Society for the History of Science, Brusels, 7-10 September 2022.

(invited lecture) "Forgetting the Results of Advanced Knowledge: A Historical Perspective", World Conference on Basic Sciences and Sustainable Development, September 20–22, 2022, Belgrade, Serbia.

(Public Lecture, Mary Sommerville Lecture) "Why we must rewrite the history of numbers", October 25, 2022. International Center for Mathematical Sciences, Bayes Center, Edinburgh.

(invited lecture) "Réflexions sur l'histoire et l'historiographie de l'idéalité en mathématiques", Conference in honor of Jean-Jacques Szczeciniarz, organized by Brice Halimi and David Rabouin (November 24-25, 2022), Université Paris Cité.

(with Nicolas Michel) "Why mathematicians' historical activities about mathematics are important for historians of maths", lecture at the Workshop "Around Brill and Noether's Report on Algebraic Functions", University of Lille, December 12-16, 2022. https://brill-noether.github.io/index.html

"What can the history of numbers teach us about artificial languages?", Symposium "Artificial languages in science, organized by the commission IASCUD, Congress of the DLMPST, Buenos Aires, July 21-29, 2023.

"Polynomials in 13th-century China: A material transformation of diagrammatic work on equations?", Korean Institute for Advanced Study, Seoul, August 21-25, 2023.

(Keynote Speaker) "Mathematical collectives according to observers and actors: The historiography of numeration systems and arithmetic", Novembertagung, Rijeka (Croatia), September 15-16, 2023.

"Why mathematicians' practice of the history and philosophy of mathematics has been crucial for the advancement of mathematics", ESHS in-between meeting "What place for history of science?", Bucharest, 21-22 September 2023.

"Why should historians of science and technology work on cultural diversity, and in which sense?", Global History of Science and Technology Festival 2023, DHST, September 29, 2023.

(invited lecture) "Social and linguistic aspects of computing in 7th century China", Conference "Political and Social Aspects of Language and Mathematics" (PSALM), organized by Andrew Arana, Heather Burnett and Tabea Rohr, Université Paris Cité, October 12-13, 2023.

"Poncelet, a reader of Leibniz?", Conference for Eberhard Knobloch's 80th birthday, Université Paris Cité, November 6-7, 2023. Talk online at: https://www.youtube.com/watch?v=sDCeUkdtubA

"The Entanglement of Philosophical and Mathematical Reflections in Poncelet's Introduction of Ideal Elements in Mathematics (1815-1822)", Conference "Is Philosophy Useful for Science, and/or Vice versa?", organized by Marco Panza and Thomas Pradeu, Chapman University, Orange, January 30 – February 2, 2024 (https://www.youtube.com/watch?v=olaZBD3o5gg).

"Computing through proving versus computing formally. Reflections based on Chinese sources", Conference "Ancient Philosophy and Science Beyond Borders", organized by Lea Cantor eandt Arthur Harris, Faculty of Classics, Cambridge, 14-15 March 2024.

(keynote lecture) "Jean-Victor Poncelet's changing notions of ideals, 1815-1822", 7th international meeting, Association for the Philosophy of Mathematical Practice, Pavia, 18-20 June 2024.

"From computation to a practice of proof: Poncelet's ideal elements in geometry," Conference International Conference on History of Modern Mathematics, organized by K. Chemla, Qu Anjing and Zhou Xiangyu, Tianyuan center, 25-29 June 2024.

4. Teaching activities

4.a PhD students advised

(jointly advised with JP Benzécri (University Paris VI)) Cheung Yanleung, *Le formulaire géométrique de* Reflets sur les mesures du cercle *de Li Ye par l'analyse des données* (PhD degree from the University Paris VI, Thesis defense: 1985).

(jointly advised with Eberhard Knobloch (Technische Universität, Berlin)) Andréa Eberhard (Bréard), *Re-création d'un concept mathématique dans le discours chinois: Les séries du premier au dix-neuvième siècle* (PhD degree from the University Paris Diderot and the TU Berlin, Thesis defense: September 27, 1997). Prize of the best dissertation awarded by the French Association of Chinese Studies (1999) and Prize of the International Academy of History of Science (1999).

Agathe Keller, *Un commentaire indien du VIIème siècle. Bhaskara et le* Ganitapada *de l'*Aryabhatiya (PhD degree from the University Paris VII, Thesis defense: March 21, 2000).

(jointly advised with Alain Chenciner) Anne Robadey, *Différentes modalités de travail sur le général dans les recherches de Poincaré sur les systèmes dynamiques* (PhD degree from the University Paris VII, Thesis defense: January 2006).

MIZUNO Mitsuko, *The works of KŐNIG Dénes (1884–1944) in the domain of mathematical recreations and his treatment of recreational problems in his works of graph theory* (PhD degree from the University Paris VII, Thesis defense: December 3, 2010).

(with Sophie Desrosiers, EHESS) Eric Vandendriessche, *String figures as mathematics? Les jeux de ficelle une activité mathématique?* (PhD degree from the University Paris VII, Thesis defense: December 8, 2010).

Félix Zheng [Zheng Fanglei] *Des* Data *d'Euclide au* De numeris datis *de Jordanus de Nemore* (PhD degree from the University Paris VII, Thesis defense: September 27, 2012).

(jointly advised with Horng Wann-sheng (National Taiwan Normal University)) Charlotte Pollet, *Comparaison des pratiques algébriques de la Chine et de l'Inde médiévales. Comparison of Algebraic Practices in Medieval China and India* (PhD degree from the University Paris VII and National Taiwan Normal University, Thesis defense: November 13, 2012).

CHEN Yifu, *L'étude des Différents Modes de Déplacement des Boules du Boulier et de l'Invention de la Méthode de Multiplication Kongpan Qianchengfa et son Lien avec le Calcul Mental* (PhD degree from the University Paris VII, Thesis defense: December 6, 2013)

(jointly advised with Mic Detlefsen (Notre Dame University)), Emmylou Haffner, *The "Science of Numbers" in action in Richard Dedekind's works: between mathematical explorations and foundational investigations* (PhD degree from the University Paris VII, Thesis defense: December 8, 2014).

Frédéric Jaëck, *Topologie et structures algébriques dans l'histoire de l'analyse fonctionnelle* (PhD degree from the University Paris VII, Thesis defense: December 2015).

(jointly advised with Nalini Balbir (University Paris III)) Catherine Singh, *Mathématiques et cosmologie Jaina. Nombres et algorithmes dans le Ganitasarasamgraha et la Tiloyapannati*, (PhD degree from the University Paris III, Thesis defense: November 9, 2015).

(jointly advised with Jean-Jacques Szczeciniarz (University Paris Diderot)), Wang Xiaofei, *The Teaching of Analysis at the École Polytechnique 1795-1809.* (PhD degree from the University Paris VII, Thesis defense: November 29, 2017, degree awarded with the congratulations of the thesis committee).

(jointly advised with TIAN Miao (Chinese Academy of Science)) Zhou Xiaohan, *Elements of Continuity between Mathematical Writings from the Song-Yuan (13th–14th Century) dynasties and the Ming Dynasty (15th Century): Comparing Yang Hui's Mathematical Methods (1261 C.E.) and Wu Jing's Great Compendium (1450 C.E.)* (PhD degree from the University Paris VII, Thesis defense: November 28, 2018).

(jointly advised with Ivahn Smadja (University Paris Diderot, then Nantes University)), Nicolas Michel, *Of Words and Numbers: The writing of generality in the emergence of enumerative geometry (1852-1893)* (PhD degree from the University of Paris, 2016-2020, Thesis defense September 24, 2020. Degree awarded with the unanimous congratulations of all the committee members.
From September 2020 on, Nicolas Michel will be a post-doctoral fellow at Utrecht University.

(jointly advised with Shirley Carter-Thomas (University Paris III)), Edgar Lejeune, *Sur les mutations du travail de l'historien provoquées par l'irruption des moyens électroniques* (PhD degree from the University Paris Diderot, 2016-2021).
From October 2021, Edgar Lejeune will be a post-doctoral student at the Université d'Angers.

Yasmine Kadi, Master thesis, *Madkhar* de Kushyar ibn Labban (fin Xe siècle) et sa traduction en chinois fin XIVe siècle (Université de Paris, 2018-2019).

Paul Ribrag, Master thesis, *La pratique du nombre dans les mathématiques d'Arthur Cayley* (Master degree from the University Paris Diderot, 2018-2019).

Dominique Allard, Master thesis, *La réception de la théorie de Monge sur la vision des formes et des couleurs : 1789-2016* (Master degree from the University of Paris, 2019-2021).

(jointly advised with J.-B. Grodwohl (Université Paris Cité)), Clément Bonvoisin, Ph.D. thesis, *Des mathématiques pour les technologies militaires. Entre Est et Ouest, recherches sur l'optimisation dynamique – 1940-1970* (Université Paris Cité, 2021—).

Yuan Rui, Ph.D. thesis, *Li Rui's Mathematics and his historiography of the mathematical sciences* (Université Paris Cité, 2022—).

(jointly advised with Patrick Popescu-Pampu (Université de Lille)) Paul-Emmanuel Timotei, Ph.D. thesis, *Singularités et histoire de la théorie des singularités chez Brill et Noether* (Université Paris Cité, 2022—).

(jointly advised with Ivahn Smadja (Université de Nantes)) Thomas Berthod, Ph.D. thesis, *Relations entre mesure et topologie dans les travaux d'analyse de Lebesgue, Borel et Baire* (Université Paris Cité, 2022—).

Liu Nana, *Interactions between history of mathematics and mathematics on the basis of Brill and Noether's report on algebraic functions* (Université Paris Cité, 2023—).

(jointly advised with Marie-Claude Arnaud (Université Paris Cité)) Elisa Dalgalarrondo, on the *Impact of the Ecole Normale Supérieure de Jeunes Filles on the presence of women in higher education and research* (1936-1985) (Université Paris Cité, 2023—).

(jointly advised with Justin Smith (Université Paris Cité)) Stephen Hung, *Historiographic and historical analysis of the mathematical languages used in ancient and medieval Chinese mathematical texts*.

4.b Courses (a sample)

"Mathematical writings as revelatory of textual practices in China: writing up algorithms", Ecole des Hautes Etudes en Sciences Sociales, 1990-1991.

"History of science in Asia", University Paris VII, Lecture course (Master level), 1990-1991, 1991-1992 (with C. Despeux, A. Horiuchi, M. Kalinovski, and G. Métailié).

"The various approaches to algebraic equations and their synthesis", Ecole des Hautes Etudes en Sciences Sociales, 1991-1992.

"History of Arabic mathematics", University Paris VII, Lecture course (Master level), 1992-1993 (with H. Bellosta and P. Abgrall).

"History of mathematics", University Paris VII, Lecture course (Master level), 1993-1994.

"History of mathematics in China", Lecture course (Master level), Technische Universität, Berlin, 1994-1995 ; Sao Paulo University (Brazil), November 1995.

"How to read mathematical texts?", University Paris VII, Lecture course (Master level), 1995-1996, 1996-1997, 1997-1998.

"Non-Western Knowledge", Department of anthropology, University Paris X-Nanterre, Lecture course (Master level), 1997-1998.

"History of algebra", University Paris VII, Lecture course (Master level), 2002-2003.

"Cosmology and sciences in East Asia", INALCO— Universities PARIS III et Paris VII, Lecture course (Master and PhD level) (with Catherine Despeux (INALCO) and Georges Métailié (Koyré Center)).

"Critical Reflections on Algebra—An outlook from Chinese sources", University Paris VII, Lecture course (Master level), 2003-2004.

"History of infinitesimal methods—an outlook from from Chinese texts", University Paris VII, Lecture course (Master level), 2004-2005.

Creation of a course in global history of science for the Master degree, University Paris VII, Lecture course (Master level), 2005-2006, 2006-2007 (with Régis Morelon).

Multidisciplinary European Summer School on Observation, U. Paris 7, September 2009 (Organization with Thomas Coudreau & Giuseppe Leo (Physicists)).

Interdisciplinary course "Methods of observation in various disciplines" for Ph.D. students in all fields (University Paris Diderot) (17-19/3/2010) (Organization with Thomas Coudreau).

Course in methods of history of science (Scientific writings). University Paris VII, Lecture course (Master level), 2009-2010, 2010-2011.

Workshop *La variété des sources mathématiques et la question de leur interprétation*, Summer School in the History of Mathematics, organized by N. Schappacher and S. Gauthier, for the GDR 3398 "Histoire des mathématiques", Centre International de Rencontres Mathématiques, November 4-8, 2013 (with Renaud Chorlay and Baptiste Mélès).

"Histoire des mathématiques en Chine des Han aux Yuan"/"Histoire des mathématiques et de l'astronomie des Han aux Yuan", in the context of a lecture course (Master level) "Histoire des sciences en Asie", Master LOPHISS-SC2, responsible of the lecture course : Florence Bretelle-Establet. 3 or 6 hours every year since 2011.

"Nombres, opérations, démonstrations: Vues d'Asie", Lecture course on the history of mathematics, Master (2nd year) "Nombres, grandeurs, mesure", Master LOPHISS-SC2, Université Paris Diderot, 3 or 6 hours every year since 2018.

Three-day Masterclass: "Philosophy of mathematical practice", Vrije Universiteit Brussels, Brussels, May 17-19, 2018. 7 hours lectures. 1: Practices of generality in the mathematics of ancient China and beyond. 2: Working with diagrams, interpreting diagrams. Views based on Chinese sources. 3: The practices of abstraction and their interpretations in the mathematics of ancient China (https://www.illc.uva.nl/NewsandEvents/Events/Conferences/newsitem/9674/17---19-May-2018,-Masterclass-in-the-Philosophy-of-Mathematical-Practice-with-Karine-Chemla).

Masterclass for graduate students of the Vossius Center (October 17, 2019), Zeemanstichting and Vossius Center, University of Amsterdam.

"Fractions, irrationnels quadratiques et démonstrations. Vues de Chine", Lecture course on the history of mathematics, Master (2nd year), Master LOPHISS-SC2, Université de Paris, 3 hours per year since 2021.

"Nombre, mesure, quantité », Lecture course on the « Histoire et épistémologie de la mesure", Master (2nd year), Master LOPHISS-SC2, Université de Paris, 24 September 2021 (3h).

One-semester teaching unit on the history of mathematics, for third year students, within the bachelor course in mathematics, Université Paris Cité, given with Sara Confalonieri, Brice Halimi, Agathe Keller and David Rabouin (2022; 2023; 2024).

"Peoples and Civilisations in the historiography of numbers and symbolism: A Critical Approach", lecture for Master and PhD students in the context of the "Centre of Greek and Chinese Ancient Civilizations", 29 March 2023, Athens.

"History of mathematics in China", lecture for Bachelor students in the context of the "Centre of Greek and Chinese Ancient Civilizations", 3 April 2023, Athens.

"Mathematical cultures seen from the perspective of the history of numbers", Lecture in the history of science, Beijing University, Beijing, 2 hours, 27 April 2023.

Responsible of the lecture course "History of algebra", M2, "History of mathematics", first semester 2023-2024. 6 hours lectures.

Two lectures in the lecture series "Methods in Sinology: Science", Lecture 1: "How to Read an Ancient Chinese Mathematical Problem?" (February 13, 2024); Lecture 2: "Chinese Language and Science" (February 16, 2024) (https://sinologymethods.com/2024/01/05/chinese-mathematics/).

Organization of a summer school "Current research on the history of mathematics in the ancient world: new questions and new approaches", with Serafina Cuomo, Agathe Keller, Adeline Reynaud, Jan Hogendijk, Eunsoo Lee, and Felix Zheng, funded by the programme "Mathematics for Mankind", Edinburgh, International Center for Mathematical Sciences, 15-26 July 2024. 6 hours lectures, and tutoring.

5. Service to the Profession

5.a Editorial activities

• 2003-: Editor responsible of the technical terms linked to mathematics in classical Chinese, in C. Harbsmeier (ed.), *Thesaurus Linguae Sinicae* (TLS).

• 1992-: Editor with F. Martin (EPHE) of *Extrême-Orient, Extrême-Occident* (1992-2005). 2005-: Editorial Board.

• 1995-: Member of the Editorial Board of the series "*Science Networks*", created by Hans Wussing et Erwin Hiebert, and now edited by Olivier Darrigol and Eberhard Knobloch, Birkhäuser, and then Springer.

• 1994-: Editor with J. Peiffer and B. Belhoste of *Revue d'histoire des mathématiques* (1998-2001). Editorial Board (1994-98, 2001-04) and then, Reading Committee (2004-).

• 1999-: International Editorial Board of *Taiwanese Journal for the Studies of Science, Technology and Medicine*.

• 2006-: Member of the Editorial Board of *Ganita Bharati*.

• 2007-: Member of the Advisory Board of EASTS. *East Asian Science, Technology and Society: an international journal*.

• 2007-: Member of the Editorial Board of *Zhongguo keji shi zazhi* (*Journal for the history of science and technology in China* 中国科技史杂志), Academia Sinica, Beijing.

• 2007-: Member of the Wissenschaftlicher Beirat of *NTM —Zeitschrift für Geschichte der Wissenschaften, Technik und Medizin*.

- 2008-: Editor of the Series "Histoire des savoirs", Editions Omnisciences.

- 2010-: Member of the Editorial Board of *Ziran kexueshi yanjiu* (*Studies in the History of Natural Sciences* 自然科学史研究), Academia Sinica, Beijing (2010-)

- 2011-2023: Member of the Editorial Board of *Computability*– The Journal of the Association Computability in Europe.

- 2011-: Member of the Reading Committee of *Etudes chinoises*.

- 2014-: Member of the Scientific Board of *Studia Historiae Scientiarum* (Polska Akademia Umiejetnosci).

- 2014-: Member of the Board of Associate Editors for *History of Humanities*.

- 2015-: Member of the Scientific Board of the "Book Series on Chinese Science and Technology Sources (中国科技典籍选刊)".

- 2015-: Member of the Scientific Board of the series "Frontiers in History of Science", Birkhäuser (Springer).

- 2016-: Member of the Editorial Board of *Transversal: International Journal for the Historiography of Science*, https://seer.ufmg.br/index.php/transversal/index.

- 2016-: Member of the Editorial Board of *Studies on the History of Mathematics*, China (Editor: Guo Shirong).

- 2016-: Editor, with Agathe Keller and Christine Proust, of the Series "Why The Sciences of the Ancient World Matter" (http://www.springer.com/series/15657), Springer.

- 2017-2022: Member of the Editorial Board of the Series *Documents Mathématiques,* Publications of the French Mathematical Society.

- 2017-: Member of the Editorial Board of the journal *Chinese Annals of the History of Science and Technology* (CAHST).

- 2018: Member of the Editorial Board of the journal *HOPOS*, the official journal of the International Society for the History of Philosophy of Science.

- 2018-: Associate editor of the journal *Sciamvs*, which specializes in the publication of primary mathematical sources.

- 2018 -: Member of the Editorial Board of the journal *Interdisciplinary Science Reviews*.

- 2019 -: Member of the Editorial review board of the book series "Global Epistemics".

- 2019- : Member of the Editorial Board of the book series "Logic, Epistemology and the Unity of Science", https://www.springer.com/series/6936?detailsPage=titles.

- 2019- : Member of the Editorial Board of the book series "Logic, Argumentation and Reasoning. Perspectives from the Humanities and the Social Sciences", https://www.springer.com/series/11547?detailsPage=titles.

- 2023-: Member of the Advisory Board of the journal *Scientia. The Journal of the Italian Society of History of Science.*

5.b Management

Responsibilities

- 1999-2008: Direction of the research group REHSEIS (CNRS & University Paris Diderot). 1999-2000: Vice-Director. 2001-2008: Director.

- 2001-: Director of the Doctoral School 400 "Savoirs scientifiques. Epistémologie, Histoire des sciences, Didactique des disciplines", University Paris Diderot. 2001-2012: Member of the Scientific Council. 2012-2014: Vice-Director. 2014-2018: Director. 2019-: Member of the Scientific Council.

- March-June 2002: Head of an International Project of Advanced Study "History and historiography of mathematical proof in ancient traditions", Columbia University-MSH-REHSEIS.

- 2003-2007: Director of the French Nation-wide Interdisciplinary Program CNRS-Ministry of higher education and research (MESR) "History of knowledge". For a synthesis of the projects funded, and their outcomes: http://www.cnrs.fr/prg/PIR/programmes-termines/histsavoirs/histsavoirs.htm.

- March-July 2008: Head of a project on "Epistemological cultures," Institute of Advanced Study—Paris. Members: Richard Yeo, Fan Fa-Ti, Ito Kenji and Micah Ross.

- 2011-2016: Principal Investigator of the European Research Council Advanced research grant (5 years) for the project "Mathematical Sciences in the Ancient World (SAW)" (with the co-directors: Agathe Keller (CNRS) et Christine Proust (CNRS)).

Membership in Committees and Responsibilities in Learned Societies

- 2012-2018: European Society for the History of Science (President Elect, 2012-2014; President, 2014-2016; Vice-President, 2016-2018).

- 2003, 2004: International Academy of the History of Science: Elected auditor of the accounts (2003). Member of the nominating committee for the positions of President and Vice-President (2004). Scrutineer of the vote, with Marco Beretta (2018).

- 1991-: International Commission for the History of Mathematics. Member representing France. 2003-: Member of the Nominating committee for the Kenneth O'May Medal. 2016-2017: Member of the Sub-Committee awarding the Kenneth O'May Prize 2017

- 1997-: Member of the Scientific Council of the Institut des Hautes Etudes Chinoises (Collège de France).

- 1999-: French National Committee for History and Philosophy of Science, Academy of Sciences (1999-: Elected Member. 2000-: Elected Member of the Board of Trustees. 2000-2006: Assistant Secretary General. 2006-2007: Secretary General. 2011-: Elected Chair).

- 2001-: Member of the International Commission of Science and Cultural Diversity (IASCUD) of the Division of History and Philosophy of Science. 2001-: Vice-President. 2005-: General secretary. 2013-: Assessor.

- 2004-: Contribution to the creation of an Inter-University Master degree LOPHISS (Logic, philosophy, history and sociology of science)- University Paris I/Paris IV/Paris VII/ENS Ulm (2004-2005). Member of the Scientific Council (2005-).

- 2008: Elected Member of the Board of Trustees, University Paris Diderot.

- 2009-2013: Member of the Scientific Committee of the Mediterranean Institute of Advanced Study (IMERA).

- 2009-2013: Assistant Secretary General of the Council of the Division of History of Science and Technology (International Union of History and Philosophy of Science, ICSU, 2009-2013).

- 2008-2010, 2011-2014: International Congress of Mathematicians: Member of the panel nominated by the organizing committee to nominate invited lecturers for the section "History of mathematics", Congress Hyderabad, 2010. Chair of the Panel for the Congress in Seoul, 2014.

- 2013: Member of the working group gathering Principal Investigators of ERC projects and members of the Direction of CNRS to improve the management of ERC projects in the CNRS.

- 2016-: Member of the International Advisory Board of the Vossius Center (Amsterdam)

- 2016-2018: Member of the Nominating Committee of the History of Science Society. 2017-2018: chair of the committee.

- 2017-2018: Member of the committee of the Dan David Prize (Dan David Foundation and Tel Aviv University). Resignation.

- 2017-2018: Member of the committee HOPOS (History of Philosophy of Science) in charge of assessing special issues for the Society's journal.

- 2017: Member of the thesis committee for Magali Dessagnes, *La circulation des tablettes cunéiformes mathématiques et la constitution des collections de la fin du XIXe siècle à la première moitié du XXe siècle. Une contribution à l'historiographie des mathématiques mésopotamiennes.* (Defense on January 31, 2017).

- 2017: Member of the habilitation committee for Paul-André Melliès, *Une étude micro-logique de la négation,* Université Paris Diderot (Defense on November 20, 2017).

- 2017: Member of the thesis committee for Wang Xiaofei, *The Teaching of Analysis at the École Polytechnique 1795-1809*. le 29 novembre 2017.

- 2017: Member of the thesis committee for Cédric Vergnerie, *La théorie des caractéristiques dans les Vorlesungen über die Theorie der algebraischen Gleichungen de Kronecker : la fin du "cycle d'idées sturmiennnes" ?,* Université Paris Diderot (Defense on December 2 2017).

- 2018—2020: Co-Chair of the committee for the biennal conference of the Society HOPOS (History of Philosophy of Science) 2020 (chair of the "After Kant subcommittee") (2018-2020).

- 2018: Chair for the thesis committee for Nacera Bensaou, *Takmilat al 'Uyūn d'al-Işfahānī et ses sources : Une histoire des méthodes algorithmiques de résolution des équations cubiques,* Université Paris Diderot (Defense on July 9, 2018).

- 2018-2023: Member of the International Scientific Council of the CIRM (International Center of Mathematical Meetings/Centre International de Rencontres Mathématiques (CNRS, SMF et Aix-Marseille Université)).

- 2019 Member of the thesis committee of the dissertation by Pierre Chaigneau, *Otto Neugebauer, François Thureau-Dangin et l'édition des textes mathématiques cunéiformes dans les années 1930* (25 -11-2019).

- 2020 Member of the Habilitation committee of Agathe Keller (CNRS), *Feeding Each Other. The Dialectics of History and Historiography of Mathematics in Sanskrit.* (Université Paris Diderot, 2019-2020) (21-1-2020).

- 2020 Member of the Doctorate Committee of Monica Klasing Chen, *Memorable Arts: The Mnemonics of Painting and Calligraphy in Late Imperial China*, Université de Leiden (16-12-2020).

- 2022 Member of the thesis committee of Emma Mojet, *Observing Disciplines. Data Practices In and Between Disciplines in the 19th and Early 20th Centuries*, Amsterdam University.

- 2022 Examiner of the dissertation of Qin Yang, *Visual Forms of Canonical Interpretation in Song China* (960-1279), The Australian National University.

- 2022— Elected member of the Council of the UFR IHSS (Université Paris Cité).

- 2023 Chair of the PhD thesis committee of Sarah Hijmans, *From Lavoisier to Mendeleev. The identification of chemical elements in practice between 1770 and 1870*, 27 February 2023, Université Paris Cité.

- 2023-2026 Chair of the European Solidarity Committee, European Mathematical Society.

- 2023- Member of the Committee advising Florian Sanguinet for his dissertation, *Coûts et bénéfices de la transition Agricole: ethnographier*

les formes de calcul dans les exploitations et les confronter aux instruments de normalisation comptable, Institut Agro Dijon.

- 2023-   Member of the Advisory Board of the « Centre of Greek and Chinese Ancient Civilizations », National and Kapodistrian University of Athens.

- 2023-   Member of the Scientific Committee of the program « Mathematics for Humanity », of the International Center for Mathematical Sciences, University of Edinburgh (https://www.icms.org.uk/funding-opportunities/mathematics-humanity).

- 2023   Member of a Hiring Committee for a position at the Paris INSPE.

- 2023   Member of the Prize Committee for the Hirst Prize and Lecture, London Mathematical Society and British Society for the History of Mathematics.

- 2023   Referee and Member of the habilitation committee for Béatrice L'Haridon, *La pensée confucéenne au prisme des textes historiques et rituels*, Ecole Pratique des Hautes Etudes (Defense on May 23, 2023).

- 2023-2024   Chair of the Committee awarding the Otto Neugebauer Prize, European Mathematical Society.

- 2023-2024   Referee and Member of the habilitation committee for LI Guoqiang, *Ethnobotanique et ethnozoologie de la Chine: archéologie, textes, terrains* (Defense: February 7, 2024).

- 2023-2024   Referee and Member of the thesis committee for Yang Liqiong, *La relation entre l'environnement et la maladie dans les médecines grecque et chinoise anciennes : une étude comparative entre le Corpus Hippocratique et le* Canon Interne de l'Empereur Jaune (Defense: April 4, 2024, EPHE, PSL).

- 2024   Member of the thesis committee for Adeline Reynaud, *Les diagrammes mathématiques paléo-babyloniens : catalogue, propriétés matérielles, rôles dans les raisonnements* (Defense: May 17, 2024, Université Paris Cité).

Evaluation activities

- Referee reports for journals (*Historia Mathematica*, *Archives Internationales d'Histoire des Sciences, Tsing Hua Journal of Chinese Studies*, *Centaurus*, *Science in context, Isis, Arabic sciences and philosophy, Revue d'histoire des mathématiques*, EASTS, *Histoire, épistémologie, langage*, *Indian Journal of History of science*, *Foundations of Science*, *Ziran kexueshi yanjiu*, *Sciamvs*, EASTM, *Journal for general philosophy of science*, *Studies in History and Philosophy of science*, *Mathematical Intelligencer*, *Cahiers de Linguistique de l'Asie Orientale*, *Archive for History of Natural Sciences*, *History of Humanities, Chinese Annals for History of Science and Technology*, *British Journal for the History of Science—Themes*, *Folia Linguistica*, *South Asian History and Culture, Laval Théologique et*

Philosophique, The History of Science Newsletter (Taiwan), Philosophy East and West, Nuncius, Revue d'histoire des sciences, British Journal for the History of Science).

- Referee reports for publishers (Birkhäuser, Kluwer, Cambridge University Press, Presses Universitaires de Vincennes, Springer, Oxford University Press, Presses Universitaires de Franche Comté).

- Referee reports for conferences (Biannual meeting of the European Association of Chinese Studies, 2024).

- Evaluation for scholarships, programs and positions (Netherlands Organization for Scientific Research (NWO); Wissenschaftskolleg; Dibner Institute for History of Science (MIT); Museum quai de Branly; Rockefeller Foundation; US Committee on Advanced Study in China (National Academy of Sciences); CNRS; Fondation Chiang Ching-kuo; Maison des sciences de l'homme d'Aquitaine; ANR; NSF; U.S. Fullbright Scholar Program; Scientific Council of Strasbourg University; Institut Universitaire de France; Greek Ministry of Research; IUF; Conseil de recherche en sciences humaines, Fonds de Recherche, Société et culture (Québec); Brown University; Northwestern University; Berkeley University; Ts'ing-Hua University; Third World Academy of Science; Korean Institute for advanced study KIAS; EURIAS; Washington State University; National Endowment for the Humanities; Max-Planck Institut für Wissenschaftsgeschichte; Israel Science Foundation; University of California at Berkeley; EHESS; Johann Wolfgang Goethe-Universität (member of the committee); Stanford University; University of Texas at Austin; ERC project ALFA; Lausanne University/ École polytechnique fédérale de Lausanne; Aarhus University; Qinghua University (Beijing); Academia Sinica (Taiwan); University of the Chinese Academy of Science; ICREA programme for hiring researchers in Catalogne; National Sun Yat-Sen University (Taiwan); Indiana University; NWO project (Netherlands); Cohn Institute (Tel Aviv University); Department of Oriental Studies; Faculty of Arts, University of Malta; McGill University; Sun Yat-sen University (China); California Institute of Technology; University of Chicago; University of Toronto (Graduate Department of Philosophy); Sorbonne Université; Department of Near Eastern Languages and Civilizations at the University of Chicago, Ptolemaeus Arabus et Latinus (PAL, Muenchen), Department of History of the Illinois State University; University of Chicago Society of Fellows; Early Career Research Fellowships (Cambridge); Radcliffe Institute; Research Foundation – Flanders; European Science Foundation; Department of Classics and Ancient History (Durham University); Department of Humanities and Arts at the Technion (Israel Institute of Technology); National Ts'ing-hua University; Faculty of Arts & Science (University of Toronto); Isaac Newton Institute for Mathematical Sciences; Cornell University (Department of Classics); Department of History of Science and Technology (Johns Hopkins University)).

- 1992- 1997: Member of hiring committees for Epistemology and History of Science, University Paris Diderot and CNAM. 1992- 1997: Member as associate professor. 2004-2011: Member as professor.

- 2000: Member of the Evaluation Committee of the Institute of History, Ts'ing-Hua University (Taiwan).

- 2008-2012: Member of the National Committee of CNRS (hiring committee), Section 33 "Early modern and modern history" (2008-2011). 2009: Elected member of the Interdisciplinary Committee 42 "Sciences de la communication" (Resigned in 2010).

- 2013 (17-18 Oct.): Member of the International Assessment Committee of the Institute for the History of Natural Sciences, Beijing, Chinese Academy of Science.

- 2012, 2014, 2016: Member of hiring committees for positions of: Professor in the history and philosophy of life sciences, University Paris Diderot; Professor in modern history, University Paris Diderot; Professor of history and philosophy of science, University Paris Nanterre Paris X.

- 2020: Elected member of the Committee assessing the special issues submitted to *Centaurus*.

6. Activities Towards a Broader Audience (a sample)

6.a Publications and editorial activities

Member of the Editorial board of the journal *Préfaces* (six issues per year), Cercle de la Librairie (1987- 1990).

Member of the Editorial board of *Gazette des mathématiciens* (1987-1991, 1997-2000, to launch a section on the history of mathematics).

Scientific Council of the *Encyclopedia Universalis* for their section on mathematics (1997-1999).

Member of the Editorial board of the website "Images des mathématiques", responsible of the section on history of mathematics (2008-2014)

Amy Dahan, Jean-Luc Chabert, K. Chemla (eds.), *Chaos et déterminisme*, Le Seuil, 1992.

K. Chemla, Thomas Coudreau and Giuseppe Leo (eds.), *Observation*: *Pratiques et enjeux*, Omniscience, 2015, 336 p.

After the invited lecture at the International Congress of Mathematicians, 1998: Article in *CNRS Info* n° 371, Feb. 1999 ("Algorithmes et démonstrations en Chine ancienne"), p. 9-10. Followed by an article in *Infoscience* (16-2-99), and interviews for a radio program in Sidney (Australia) (Feb. 16, 1999), and for *Le monde, Science et Avenir, Eurêka, Sciences Humaines, Le Point, Le Journal du CNRS* (June 1999). Articles in *Le Nouvel Observateur*, *La Libre Belgique, China News Daily,* and several Chinese and Japanese newspapers.

After the publication of *Les Neuf Chapitres*, echoes in newspapers and beyond: *Sciences et avenir*, Dec. 2004, p. 111. *Les génies de la science,* Supplementary issue of *Pour la science,* Nov. 2004. *Le nouvel observateur,* Dec. 23, 2004, p. 143. *Le Monde*, Jan. 8, 2005, p. 24, *Le Figaro,* March 18, 2005, p. 12. Book of the month in *La Recherche*, May 2005, p. 87. BULLETIN ELECTRONIQUE DE CHINE,

16, Feb. 2005, Scientific office, Beijing. Chinese newspapers: *Quotidien du peuple*, French version (http://french.people.com.cn/Sci-Edu/3585102.html) and Chinese version (http://www.qglt.com/bbs/ReadFile?whichfile=36381&typeid=43), and in the international website of the Chinese news agency Xinhua (http://big5.xinhuanet.com/gate/big5/news.xinhuanet.com/overseas/2005-09/20/content_3516955.htm), in the website of the Chinese Academy of Science (http://www.cas.cn/html/Dir/2005/07/31/2200.htm), and China.org (http://www.china.org.cn/french/187751.htm).

"Les connaissances élaborées en Chine ont vocation d'universalité", Interview for the weekly newspaper *Le Point*, Special issue 13: *Confucius, Lao-tseu, Tchouang-tseu. Les textes fondateurs de la pensée chinoise*, March-April 2007, p. 70-73.

"Il faut sortir d'une vision unique de la science", Interview by J.F. Mondot, for the monthly journal *Les Cahiers Sciences et vie. Numéro spécial Chine. Les inventions qui ont changé le monde*, n° 113, Oct.-Nov. 2009, p. 22-25.

"Les mathématiques sont le fruit d'un métissage", for the monthly journal *Sciences et Avenir*, n° 777, Nov. 2011, Interview by Khalatbari, Azar et Leglu, Dominique, p. 52-55.

"Edouard Biot, ingénieur sinologue de la première moitié du XIXe siècle" and "Histoire des mathématiques en Chine", for the section "Mathématiques et astronomie", http://heritage.bnf.fr/france-chine/homepage, and more precisely, respectively, http://heritage.bnf.fr/france-chine/fr/biot-edouard-article and http://heritage.bnf.fr/france-chine/fr/histoire-mathematiques-chinois-article. Put online in 2018. Chinese translation online in 2019.

Interview in the form of video, carried out by Antonio Becchi and Montserrat de Pablo, for the 25th anniversary of the Max Planck Institut für Wissenschaftsgeschichte, 31-7-2017. Forthcoming on the website of the Institute.

Interview with Pétronille Danchin, 2020, Institut National des Sciences Mathématiques et de leurs Interactions, CNRS, http://www.cnrs.fr/insmi/spip.php?article3711.

Interview with Hélène Frouard, *Sciences Humaines*, 331, December 2020, p. 12.

6.b Radio & TV Programs, and Events on the web

Regular participation in the radio program "Archipel Sciences", (to give news about the history of science, 1987, 1989, 1990, 1992, 1993, 1995, 1997, live broadcasts).

Radio programs on France Culture after the publication of the translation of M. Ascher, *Mathématiques d'ailleurs*, with a postface, by K. Chemla and Serge Pahaut (Dec. 5, 1998, "Le Gai Savoir", with G. Gromer ; Jan. 19, 1999, "Archipel Sciences", with Stéphane Deligeorges. Also, with Serge Pahaut, No 1, 1993, on France-Culture: "Ethnomathématiques et histoire des mathématiques".

Radio programs "Cultures d'Islam" by Abdelwahab Meddeb, France-Culture. On my research, Nov. 2002. On the book *Livre d'algèbre et d'al-muqabala*, d'al-Khwarizmi by R. Rashed, Sept. 2008.

TV Program for the Shandong TV Channel (China) on the history of mathematics in China, August 2002.

TV Program for the National TV Channel 10 (China) on *The Nine Chapters*, August 2002.

After the publication of *Les Neuf Chapitres*: Radio Program for Radio France International (RFI), Oct. 2004. Interview in Chinese for RFI, Jan. 27, 2005. Radio Program of the Union Rationaliste, Apr. 24, 2005; in "Continent sciences", Stéphane Deligeorges, France Culture (50 minutes, live broadcast); in the series "Voyages mathématiques", Radio Suisse Romande, Ruth Scheps, August 22 and 24, 2005. Interview for an online video for teachers, website "CultureMath" (http://www.dma.ens.fr/culturemath/video/html/Chemla.htm), 2006.

Radio Program 3D, Stéphane Paoli, France Inter, "3D", to mark the opening of the exhibition on mathematics at the Cartier Foundation. Public Live broadcast, Nov. 20, 2011.

After the beginning of the ERC project "Mathematical Sciences in the Ancient World (SAW)", Radio program "Autour de la question: 'Pourquoi retourner aux sources des mathématiques ?'", RFI, April 11, 2013, live broadcast. Online video for an exhibition on mathematics at Fermat house, Beaumont Lomagne, 2013 (http://www.youtube.com/watch?v=jmCu-BCGY5E).

Interview for the online journal *Circé*. Questions prepared by Pierre Chaigneau et al. Film produced by: Manon Chaigneau. Edited by: Nicolas Boileau. Video online at: http://www.revue-circe.uvsq.fr/portrait-karine-chemla/, 2016.

After the plenary lecture at the 7th European Congress of Mathematics, Interview for *Paperhive,* 25 July 2016, https://magazine.paperhive.org/paperhive-conversations-karine-chemla/

Interview with Etienne Ghys on the topic of error in science, Canal Académies (« Une erreur dans *Les Neuf chapitres* »), 28 February 2024 (https://www.canalacademies.com/auteurs/karine-chemla).

6.c Lectures

Participation in a debate on Arabic Science, Library of the Paris area La Goutte d'or, Apr. 5 2002.

Participation in a debate on "China: mathematics, astronomy and astrology", with Marc Kalinowski (EPHE), Jan. 22, 2004, Library Buffon, Paris, in the context of the events organized by Paris libraries for the China year.

After the publication of *Les Neuf Chapitres*: Oct. 2004, Press Conference on the book, for a Press Conference "CNRS Research on China". Lectures: Oct. 12, 2004, Lyon Public Library; Nancy, Nov. 17, 2005. Oct. 14, 2004, Lecture for pupils, CNRS. Oct. 16, 2004; Science Festival, University Paris VII. Oct. 17, 2004, Cité des Sciences et de l'Industrie, Paris. Nov. 19, 2004, UniverCité Ouverte 2004-2005, Castle of Belleville, Gif-sur-Yvette. Book presented by J.-P. Kahane, at the Académie des sciences, Jan. 18, 2005, and by Léon Vandermeersch at the Académie des Inscriptions et Belles-Lettres, March 3, 2006. Presentation at the bookstore "Ombres blanches", Toulouse, Mai 14, 2005. Press Conference, July 30, 2005, Beijing, French Cultural Center.

Organisation of a series of lectures on the history of science in China at the Cité des sciences et de l'Industrie, with Annick Audoir and Alain Peyraube, Jan. 5, 2006—Feb. 2, 2006 (https://www.dailymotion.com/video/x7w3dh6).

Plenary lecture for pupils, Congress Maths-en-jeans, March 24, 2007, "A quoi pourrait ressembler une histoire des mathématiques pour tous?".

Lectures at Universities for Senior Citizens: University Paris VII, 1990, 1991. Besançon, and Lyon, 2007.

Lectures on the history of mathematics at primary schools: 2nd grade, Rue Rampal, Paris, 1999.

Lectures on the history of mathematics in China for secondary schools: Paul Eluard, Saint Denis, 1988. Fernay International Secondary School, Geneva, Switzerland, 1990. Marie Curie, Sceaux, 1994. Jacquart, Paris, Camille Guérin, Poitiers, 2007. Flora Tristan, Noisy le Grand, 1988, 1996, 2008, 2010, 2017. Henri Wallon, Aubervilliers, 2011. Louis Le Grand, 2011, 2012. Is sur Tille, Côte d'Or, 2014. Lecture for pupils in Aarhus, Denmark, 1990. Science Festival, October 2013. Janson de Sailly, June 1, 2018.

Co-organization, with Pascale Cossart, Claude Debru, Etienne Ghys, Jean-Pierre Kahane, then Antoine Danchin, of the "5 to 7 of the History and Philosophy of Science at the Academy of Science" (2014-). First session on gnomons and sundials: https://www.academie-sciences.fr/fr/Colloques-conferences-et-debats-par-et-pour-la-communaute-scientifique/gnomons-et-cadrans-solaires-a-travers-les-ages.html. Session of December 3, 2019: « L'apport du monde arabe à la science »: https://www.academie-sciences.fr/fr/Seances-publiques/5-a-7-apport-sciences-arabes.html

Lecture at the Agora des Savoirs, Montpellier, April 2016: "Quoi de neuf dans les mathématiques de la Chine ancienne ?". Online at: https://www.youtube.com/watch?v=vB6HthmgFpk.

Participation in a round table in Homage to the specialist of the history of Arabic mathematics and sciences Roshdi Rashed, Institute of the Arabic World, May 30, 2018, https://www.imarabe.org/sites/default/files/documents/1.1%20Programme%20Chaire%20d%20l%27IMA%2030%20mai%202018.pdf. The talks are online at: https://altair.imarabe.org//notice.php?q=id:121256&lang=fr

(Invited lecture) "Mathématiques anciennes à l'échelle de la planète", Opening Ceremony for the 2019—2020 Year of Mathematics, in the context of the Eightieth Anniversary of the French National Center for Scientific Research (CNRS), Ministry of Education & CNRS, Large Amphitheater in the Sorbonne, October 2, 2019. https://cache.media.eduscol.education.fr/file/CST/93/2/programme-maths_1183932.pdf, video of the lecture: https://eduscol.education.fr/cid146221/ceremonie-de-lancement-de-l-annee-des-mathematiques-2019-2020.html.

Training of secondary school teachers for the history of mathematics "L'histoire des nombres : Déraciner quelques préjugés et repenser le potentiel pédagogique de la diversité des écritures numériques", Secondary School Rosa Luxembourg, Université de Perpignan, 30 September – 1st October 2021.

"Comment les différentes traditions de démonstration de l'Antiquité éclairent les démonstrations d'aujourd'hui", Lecture of the series "Sciences et Avenir ", organized by the association "Les Amis de l'Université de Liège", Forum des savoirs, 21 March 2024.

"Pourquoi il faut réécrire l'histoire des nombres", Communication, Académie des Sciences, Belles-Lettres et Arts de Lyon, 21 May 2024.