

Curriculum vitae:

Full name: Jens Egede Høyrup.

Born: Copenhagen, 1943.

“Studentereksamen” (corresponds to French *baccalauréat*/German *Abitur*) 1962.

Studies of physics with mathematics as a second subject, University of Copenhagen, Niels Bohr Institute, 1962–1965, 1966–1969.

1965–66, French *bourse d'état*, with studies of physics at Institut Henri Poincaré, Paris.

1969, cand. scient. (dissertation in particle physics).

1969–1970, conscientious objector's civil service.

1971–1973, assistant lecturer in physics at Danmarks Ingeniørakademi.

1973–1989 “lektor” (corresponds to British “senior lecturer”), since 1989 “docent” (corresponds to British “reader”) at Roskilde University, 1973–1978 in the Department of Social Sciences, 1978–1992 in the Institute of Educational Research, Media Studies and Philosophy of Science, 1992–1997 in the Department of Languages and Culture, since 1997 in the Section for Philosophy and Science Studies. Since 2005 emeritus.

Jan. 1990 *Gast-Dozent*, Karl-Marx-Universität Leipzig.

Sept. 1994 – Jan. 1995 guest researcher at Max-Planck-Institut für Wissenschaftsgeschichte, Berlin. Many shorter stays since then. December 2016 to December 2023, visiting scholar (not in permanent residence).

1995 Dr. phil. (corresponds approximately to French *Doctorat d'état*/German *Habilitation*).

2008/2009, George Sarton Memorial Chair, University of Ghent.

26.4.2013, Awarded Zhu Kezhen Visiting Professorship, Institute for History of Natural Science of the Chinese Academy of Science, and appointed permanent Honorary Research Fellow at the Institute for the History of Natural Science, Chinese Academy of Sciences.

26.7.2013, awarded Kenneth O. May Medal and Prize “for outstanding contributions to the history of mathematics”.

April – June 2019, visiting professor, Department of the History of Science, Tsinghua University, Beijing.

Field of teaching before retiring: History of natural, human and social science in the specialization cycle of philosophy and science studies, occasionally also philosophical topics; philosophy, history of ideas, history of sciences in the cycle of general humanities.

Field of research: History of science, especially the history of mathematics in pre- and early Modern cultures (emphasizing Babylonia and the pre-Modern practitioners' traditions in their interaction with Babylonian, ancient Greek, and medieval Islamic, Latin and Romance vernacular cultures; in recent years the Italian *abbacus* tradition and its Arabic background); secondary interest in social and societal aspects of modern science. Also publications in linguistics and in the Philosophy of science.

Since 1983 reviewer for history and sociology of mathematics in *Zentralblatt für Mathematik*, and since 1984 in *Mathematical Reviews*.

Associate editor of *Historia Mathematica*; until 2017 member of the Editorial Committee of *Revue d'Histoire des Mathématiques*; associate editor of *Bollettino di Storia delle Scienze Matematiche*; member of editorial board, *AIMS Mathematics*; member of editorial board, *Ganita Bhārati*; advisory editor for *Isis*; regularly referee for most of these, for *Annals of Science*, for *Centaurus*, for *The Mathematical Intelligencer*, and for various other journals and publishers.

Full member, Académie Internationale d'Histoire des Sciences; member of various other

professional organizations and networks.

Member of the Danish National Committee for the History and Philosophy of the Sciences 1998-2006.

As long as they lasted (1983 to publication of summary quasi-proceedings in 2001, for which I was responsible together with Peter Damerow) member of the planning committee for the workshops on Concept Development in Mesopotamian Mathematics held at Altorientalisches Seminar, Freie Universität Berlin.

Major publications since 1994:

books

Sonja Brentjes, in cooperation with Jens Høyrup and Bruce O'Brien. *Narratives on Translation across Eurasia and Africa*. Turnhout: Brepols, 2022.

Algebra in Keilschrift: Einführung in eine altbabylonische geometrische Technik. Berlin: Edition Open Access, 2021.

Selected Essays on Pre- and Early Modern Mathematical Practice. Cham etc.: Springer, 2019

Algebra in Cuneiform: Introduction to an Old Babylonian Geometrical Technique. Berlin: Edition Open Access, 2017.

L'algèbre au temps de Babylone : Quand les mathématiques s'écrivaient sur de l'argile. Paris: Vuibert & Adapt-SNES, 2010.

Jacopo da Firenze's Tractatus Algorismi and Early Italian Abacus Culture. (Science Networks. Historical Studies, 34). Basel etc.: Birkhäuser, 2007.

(ed., with Bernhelm Boos-Bavnbek) *Mathematics and War*. Basel etc.: Birkhäuser, 2003.

Lengths, Widths, Surfaces: A Portrait of Old Babylonian Algebra and Its Kin. (Studies and Sources in the History of Mathematics and Physical Sciences). New York: Springer, 2002.

(ed., with Peter Damerow) *Changing Views on Ancient Near Eastern Mathematics*. (Berliner Beiträge zum Vorderen Orient, 19). Berlin: Dietrich Reimer, 2001.

Human Sciences: Reappraising the Humanities through History and Philosophy. Albany, New York: State University of New York Press, 2000.

Algebra på lertavler. København: Matematiklærerforeningen, 1998.

In Measure, Number, and Weight. Studies in Mathematics and Culture. New York: State University of New York Press, 1994.

articles

"Where and How Did Archimedes Get In? Oblique and Labyrinthine Reflections". *Interdisciplinary Science Reviews* **47** (2022), 391–403.

"Peeping into Fibonacci's Study Room". *Ganita Bhārati* **43** (2021), 1–70.

"Reinventing or Borrowing Hot Water: Early Latin and Tuscan Algebraic Operations with Two Unknowns". *Ganita Bhārati* **41** (2019; published 2021), 115–159.

"Advanced Arithmetic from Twelfth-Century Al-Andalus, Surviving Only (and Anonymously) in Latin Translation? A Narrative That Was Never Told", pp. 33–61 in Sonja Brentjes and Alexander Fidora (eds), *Premodern Translation: Comparative Approaches to Cross-Cultural Transformations*. Turnhout: Brepols, 2021.

"3.2. Mathematische Texte", pp. 65–71 in Bernd Janowski & Daniel Schwermer (eds), *Texte zur Wissenskultur*. (Texte aus der Umwelt des Alten Testaments, Neue Folge 9). Gütersloh: Gütersloher Verlagshaus, 2020

"Euclid: Reception in the Renaissance", pp. 1159–1165 in M. Sgarbi (ed.), *Encyclopedia of Renaissance Philosophy*. Cham: Springer, 2022. Online, https://doi.org/10.1007/978-3-319-02848-4_918-1.

- “Guānyú yōuxiān, cuòwù hé zhèngquè – gāo dé nà, “gāo dé nà”, Wú Wénjùn, yǐjǐ suànfǎ” [“On Being First, Being Wrong and Being Right: Knuth, “Knuth”, Wu Wenjun, and Algorithms”; Chinese translation by Zheng Fanglei], pp. 82–92 in Ji Yungang, Xu Khanlin, eds, *Lùn Wú Wénjùn de shùxué shǐ yèjī* [On Wu Wenjun’s Achievements in History of Mathematics]. Shanghai: Shanghai Jiaotong University Press, 2019.
- “Archimedes: Reception in the Renaissance”, pp. 182–188 in M. Sgarbi (ed.), *Encyclopedia of Renaissance Philosophy*. Cham: Springer, 2022. Online, https://doi.org/10.1007/978-3-319-02848-4_892-1.
- “What Is a Number? What Is a Concept? Who Has a Number Concept”, pp. 23–27 in Jürgen Renn & Matthias Schemmel (eds), *Culture and Cognition: Essays in Honor of Peter Damerow*. Berlin: Edition Open Access, 2019.
- “From the Practice of Explanation to the Ideology of Demonstration: An Informal Essay”, pp. 27–46 in Gert Schubring (ed.), *Interfaces between Mathematical Practices and Mathematical Education*. Cham etc.: Springer, 2019.
- “On Old Babylonian Mathematical Terminology and Its Transformations in the Mathematics of Later Periods”. *Ganita Bhārati* 40 (2018; published 2019), 53–99.
- “Mesopotamian Mathematics”, pp. 58–72 in Alexander Jones & Liba Taub (eds), *The Cambridge History of Science. I. Ancient Science*. Cambridge: Cambridge University Press, 2018.
- “Egyptian Mathematics”, pp. 144–159 in Alexander Jones & Liba Taub (eds), *The Cambridge History of Science. I. Ancient Science*. Cambridge: Cambridge University Press, 2018.
- “Computational Techniques and Computational Aids in Ancient Mesopotamia”, pp. 49–63 in Alexei Volkov & Viktor Freiman (eds), *Computations and Computing Devices in Mathematics Education Before the Advent of Electronic Calculators*. Cham etc.: Springer, 2018.
- “The Summit of Ancient Latin Mathematical Competence: Apuleius and Augustine”, pp. 157–170 in *Actes du XIII^e Colloque Maghrébin sur l’Histoire des Mathématiques Arabes, Tunis, 30–31 mars e 1er avril 2018* (COMHISMA13). Tunis: 2018.
- “Spengler and Mathematics in a Mesopotamian Mirror”, pp. 207–224 in Sebastian Fink & Robert Rollinger (eds), *Oswald Spenglers Kulturmorphologie: Eine multiperspektivische Annäherung*. Wiesbaden: Springer, 2018.
- “Mesopotamian Mathematics”, pp. 11–24 in Paul T. Keyser and John Scarborough (eds), *Oxford Handbook of Science and Medicine in the Classical World*. Oxford & New York: Oxford University Press, 2018.
- “Explicit and Less Explicit Algorithmic Thinking, 1200-1500: Jordanus de Nemore, and the Contrast between Barthélemy de Romans et Chuquet.” *Bollettino di Storia delle Scienze Matematiche* 38 (2018), 9–30.
- “When is the Algorithm Concept Pertinent – and When Not? Thoughts about Algorithms and Paradigmatic Examples, and about Algorithmic and Non-Algorithmic Mathematical Cultures”. *AIMS Mathematics* 3 (2018), 211–232.
- “Was Babylonian Mathematics Algorithmic?”, pp. 297–312 in Kristin Kleber, Georg Neumann & Susanne Paulus (eds), *Grenzüberschreitungen: Studien zur Kulturgeschichte des Alten Orients*. Festschrift für Hans Neumann zum 65. Geburtstag am 9. Mai 2018. Münster: Zaphon, 2018.
- “The Indian Summer of al-Andalus Mathematics? An Expanded Addendum”, pp. 139–152 in Ezzaim Laabid (ed.), *Actes du XII^e Colloque Maghrébin sur l’Histoire des Mathématiques Arabes*. Marrakech, 26 au 28 mai 2016. Marrakech: École Normale Supérieure, 2018.
- “Abacus School”, pp. 1–6 in M. Sgarbi (ed.), *Encyclopedia of Renaissance Philosophy*. Cham: Springer, 2022. Online, https://doi.org/10.1007/978-3-319-02848-4_1135-1.
- “Practitioners – School Teachers – ‘Mathematicians’: The Divisions of Pre-Modern

- Mathematics and Its Actors”, pp. 207–224 in John M. Steele & Mathieu Ossendrijver (eds), *Studies on the Ancient Exact Sciences in Honor of Lis Brack-Bernsen*. Berlin: Edition Topoi, 2017
- “Archimedes – Knowledge and Lore from Latin Antiquity to the Outgoing European Renaissance”. *Ganita Bhārati* **39** (2017), 1–22
- “What Is Mathematics: Perspectives Inspired by Anthropology”, pp. 179–196 in John W. Adams, Patrick Barmby & Alex Mesoudi (eds), *The Nature and Development of Mathematics: Cross Disciplinary Perspectives on Cognition, Learning and Culture*. London & New York: Routledge, 2017
- “What Is ‘Geometric Algebra’, and What Has It Been in Historiography?”. *AIMS Mathematics* **2** (2017), 128–160.
- “Seleucid, Demotic and Mediterranean Mathematics versus Chapters VIII and IX of the *Nine Chapters*: Accidental or significant Similarities?”. *Studies in the History of Natural Sciences* **35** (2016), 463–476.
- “Embedding: Multi-purpose Device for Understanding Mathematics and Its Development, or Empty Generalization?”. *Ganita Bhārati* **38** (2016), 1–29.
- “Mesopotamian Mathematics, Seen ‘from the Inside’ (by Assyriologists) and ‘from the Outside’ (by Historians of Mathematics)”, pp. 53–78 in Volker R. Remmert, Martina Schneider & Henrik Kragh Sørensen (eds), *Historiography of Mathematics in the 19th and 20th Centuries*. Basel: Birkhäuser, 2016.
- “As the Outsider Walked In: The Historiography of Mesopotamian Mathematics Until Neugebauer”, pp. 165–195 in Alexander Jones, Christine Proust & John M. Steele (eds), *A Mathematician’s Journey: Otto Neugebauer and Modern Transformations of Ancient Science*. Cham etc.: Springer, 2016.
- “Which Kind of Mathematics Was Known and Referred to by Those Who Wanted to Integrate Mathematics in «Wisdom» – Neopythagoreans and Others?”. *AIMS Mathematics* **1** (2016), 24–42.
- “Fibonacci, Leonardo”, pp. 58–61 in *The Encyclopedia of Islam Three*, vol. ?. Leiden & Boston: Brill, 2016. http://dx.doi.org/10.1163/1573-3912_ei3_COM_27113.
- “Embedding: Another Case of stumbling progress”. *Physis* **50** (2015), 1–38.
- “Fibonacci – Protagonist or Witness? Who Taught Catholic Christian Europe about Mediterranean Commercial Arithmetic?”. *Journal of Transcultural Medieval Studies* **1** (2014), 219–247.
- “Written Mathematical Traditions in Ancient Mesopotamia: Knowledge, Ignorance, and Reasonable Guesses”, pp. 189–213 in Daliah Bawanypeck & Annette Imhausen (eds), *Traditions of Written Knowledge in Ancient Egypt and Mesopotamia*. Proceedings of two workshops held at Goethe-University, Frankfurt/Main, in December 2011 and May 2012. Münster: Ugarit-Verlag, 2014.
- “Brede linier: En glemte geometrisk begrebsstruktur”, in *AIGIS Supplementum III Marinus 80*. København: Københavns Universitet, 2014. 12 pp. <http://aigis.igl.ku.dk/CMT80/JH-bred.pdf>.
- “Mathematics Education in the European Middle Ages”, pp. 109–124 in Alexander Karp & Gert Schubring (eds), *Handbook on the History of mathematics Education*. New York etc.: Springer, 2014.
- “Geometry, Mesopotamian”, pp. 2894–2895 in Roger S. Bagnall et al (eds), *The Encyclopedia of Ancient History*. Chichester, West Sussex: Wiley-Blackwell, 2013.
- “Mathematics, Mesopotamian”, pp. 4351–4352 in Roger S. Bagnall et al (eds), *The Encyclopedia of Ancient History*. Chichester, West Sussex: Wiley-Blackwell, 2013.
- “A Hypothetical History of Old Babylonian Mathematics: Places, Passages, Stages, Development”. *Ganita Bhārati* **34** (2012; actually published 2014), 1–23.

- “Sanskrit-Prakrit Interaction in Elementary Mathematics As Reflected in Arabic and Italian Formulations of the Rule of Three – and Something More on the Rule Elsewhere”. *Ganita Bhārati* 34 (2012; actually published 2014), 144–172.
- “Was Babylonian Mathematics Created by ‘Babylonian Mathematicians?’”, pp. 105–119 in Hans Neumann (ed.), *Wissenskultur im Alten Orient: Weltanschauung, Wissenschaften, Techniken, Technologien*. 4. Internationales Colloquium der Deutschen Orient-Gesellschaft, 20.-22. Februar 2002, Münster. Wiesbaden: Harrassowitz, 2012.
- “Mathematical Justification as Non-Conceptualized Practice: the Babylonian Example”, pp. 362–383 in Karine Chemla (ed.), *History of Mathematical Proof in Ancient Traditions*. Cambridge: Cambridge University Press, 2012.
- “«Proportions» in the *Liber abaci*”, pp. 83–100 in Sabine Rommevaux, Philippe Vendrix & Vasco Zara (eds), *Proportions: Science – Musique – Peinture & Architecture*. Actes du LI^e Colloque International d’Études Humanistes, 30 juin – 4 juillet 2008. Turnhout: Brepols, 2011.
- “A diluted al-Karājī in Abacus Mathematics”, pp. 187–197 in *Actes du 10^{ième} Colloque Maghrébin sur l’Histoire des Mathématiques Arabes* (Tunis, 29–30–31 mai 2010). Tunis: Publications de l’Association Tunisienne des Sciences Mathématiques, 2011.
- “Old Babylonian ‘Algebra’, and What It Teaches Us about Possible Kinds of Mathematics”. *Ganita Bhārati* 32 (2010; actually published 2012), 87–110.
- “Hesitating progress – the slow development toward algebraic symbolization in abacus- and related manuscripts, c. 1300 to c. 1550”, pp. 3–56 in Albrecht Heeffer & Maarten Van Dyck (eds), *Philosophical Aspects of Symbolic Reasoning Early in Modern Mathematics*. (Studies in Logic, 26). London: College Publications, 2010.
- “How to Transfer the Conceptual Structure of Old Babylonian Mathematics: Solutions and Inherent Problems. With an Italian Parallel”, pp. 385–417 in Annette Imhausen & Tanja Pommerening (eds), 2010. *Writings of Early Scholars in the Ancient Near East, Egypt, Rome and Greece: Translating Ancient Scientific Texts*. (Beiträge zur Altertumskunde, 296). Berlin & New York: De Gruyter.
- “‘Proportions’ in and around the Italian Abacus Tradition”. *Physis* 46 (2009; published 2011), 55–110.
- “The Rare Traces of Constructional Procedures in ‘Practical Geometries’”, pp. 367–377 in Horst Nowacki & Wolfgang Lefèvre (eds), *Creating Shapes in Civil and Naval Architecture*. Leiden & Boston: Brill, 2009.
- “State, ‘Justice’, Scribal Culture and Mathematics in Ancient Mesopotamia.” *Sartoniana* 22 (2009), 13–45.
- “Baroque Mindset and New Science. A Dialectic of Seventeenth-Century High Culture.” Sarton Chair Lecture, Ghent University, 13 November 2008 *Sartoniana* 22 (2009), 47–73.
- “What Did the Abacus Teachers Aim At When They (Sometimes) Ended Up Doing Mathematics? An Investigation of the Incentives and Norms of a Distinct Mathematical Practice”, pp. 47–75 in Bart van Kerkhove (ed.), *New Perspectives on Mathematical Practices: Essays in Philosophy and History of Mathematics*. Singapore: World Scientific, 2009.
- “Hvor blev barokken af i videnskabshistorien: Overvejelser omkring Caramuel som matematiker”. *Filosofiske Studier* 24 (2008), 158–172.
- “The ‘Unknown Heritage’: Trace of a Forgotten Locus of Mathematical Sophistication”. *Archive for History of Exact Sciences* 62 (2008), 613–654.
- “The Algorithm Concept – Tool for Historiographic Interpretation or Red Herring?”, pp. 261–272 in Arnold Beckmann, Costas Dimitracopoulos & Benedict Löwe (eds), *Logic and Theory of Algorithms. 4th Conference on Computability in Europe, CiE 2008, Athens, Grece, June 15–20, 2008. Proceedings*. Berlin & Heidelberg: Springer, 2008.

- “The Tortuous Ways toward a New Understanding of Algebra in the Italian Abacus School (14th–16th Centuries)”, pp. 1–15 in O. Figueras, J. L. Corina, S. Alatorre, T. Rojano, A. Sepúlveda (eds), *Proceedings of the Joint Meeting of PME 32 and PME-NA XXX. Morelia, Mexico, July 17–21, 2008*, vol. I. México: Cinvestav–UMSNH, 2008.
- “*Les lais*: or, What Ever Became of Mesopotamian Mathematics?”, pp. 99–119 in Micah Ross (ed.), *From the Banks of the Euphrates. Studies in Honor of Alice Louise Slotsky*. Winona Lake, Indiana: Eisenbrauns, 2007
- “Generosity: No Doubt, but at Times Excessive and Delusive”. *Journal of Indian Philosophy* **35** (2007), 469–485
- “The ‘Unknown Heritage’: Trace of a Forgotten Locus of Mathematical Sophistication”. *Archive for History of Exact Sciences* online, DOI 10.1007/s00407-008-0025-y.
- “The Roles of Mesopotamian Bronze Age Mathematics: Tool for State Formation and Administration – Carrier of Teachers’ Professional Intellectual Autonomy”. *Educational Studies in Mathematics* **66** (2007), 257–271. doi: 10.1007/s10649-007-9090-4.
- “Bronze Age Formal Science?”, pp. 81–102 in Benedikt Löwe, Volker Peckhaus & Thoralf Räsch (eds), 2006. *Foundations of the Formal Sciences IV. The History of the Concept of the Formal Sciences*. (Studies in Logic, 3). London: College Publications.
- “Artificial Language in Ancient Mesopotamia – a Dubious and a Less Dubious Case”. *Journal of Indian Philosophy* **34** (2006), 57–88.
- “Jacopo da Firenze and the Beginning of Italian Vernacular Algebra”. *Historia Mathematica* **33** (2006), 4–42. DOI: 10.1016/j.hm.2005.03.001.
- “Leonardo Fibonacci and *Abaco* Culture: a Proposal to Invert the Roles”. *Revue d’Histoire des Mathématiques* **11** (2005), 23–56.
- “Conceptual Divergence – Canons and Taboos – and Critique: Reflections on Explanatory Categories”. *Historia Mathematica* **31** (2004), 129–147.
- “Mahāvīra’s Geometrical Problems: Traces of Unknown Links between Jaina and Mediterranean Mathematics in the Classical Ages”, pp. 83–95 in Ivor Grattan-Guinness & B. S. Yadav (eds), *History of the Mathematical Sciences*. New Delhi: Hindustan Book Agency.
- “Seleucid Innovations in the Babylonian ‘Algebraic’ Tradition and Their Kin Abroad”, pp. 9–29 in Yvonne Dold-Samplonius et al (eds), *From China to Paris: 2000 Years Transmission of Mathematical Ideas*. (Boethius, 46). Stuttgart: Steiner, 2002.
- “How to Educate a Kapo, or, Reflections on the Absence of a Culture of Mathematical Problems in Ur III”, pp. 121–145 in John M. Steele & Annette Imhausen (eds), *Under One Sky. Astronomy and Mathematics in the Ancient Near East*. (Alter Orient und Altes Testament, 297). Münster: Ugarit-Verlag, 2002.
- “Existence, Substantiality, and Counterfactuality. Observations on the Status of Mathematics According to Aristotle, Euclid, and Others”. *Centaurus* **44** (2002), 1–31.
- “On a Collection of Geometrical Riddles and Their Role in the Shaping of Four to Six ‘Algebras’”. *Science in Context* **14** (2001), 85–131.
- “The Finer Structure of the Old Babylonian Mathematical Corpus. Elements of Classification, with some Results”, pp. 117–177 in Joachim Marzahn & Hans Neumann (eds), *Assyriologica et Semitica*. Festschrift für Joachim Oelsner anlässlich seines 65. Geburtstages am 18. Februar 1997. (Altes Orient und Altes Testament, 252). Münster: Ugarit Verlag, 2000.
- “Geometrical Patterns in the Pre-classical Greek Area. Prospecting the Borderland Between Decoration, Art, and Structural Inquiry”. *Revue d’Histoire des Mathématiques* **6** (2000), 5–58.
- (ed., trans.), 2000. “Jacobus de Florentia, *Tractatus algorismi* (1307), the chapter on algebra (Vat. Lat. 4826, fols 36^v–45^v)”. *Centaurus* **42** (2000), 21–69.

- “A New Art in Ancient Clothes. Itineraries Chosen between Scholasticism and Baroque in Order to Make *Algebra* Appear Legitimate, and Their Impact on the Substance of the Discipline”. *Physis*, n.s. **35** (1998), 11–50.
- “‘Oxford’ and ‘Gherardo da Cremona’: on the Relation between Two Versions of al-Khwārizmī’s *Algebra*”, pp. 159–178 in *Actes du 3^{me} Colloque Maghrébin sur l’Histoire des Mathématiques Arabes, Tipaza (Alger, Algérie), 1–3 Décembre 1990*, vol. II. Alger: Association Algérienne d’Histoire des Mathématiques, 1998.
- “Textos de procedimientos matemáticos de la antigua Babilonia. Una selección de problemas ‘algebraicos’ y relacionados con un análisis conciso / Old Babylonian Mathematical Procedure Texts. A Selection of ‘Algebraic’ and Related Problems with Concise Analysis”. *Mathesis* **13:3** (Mexico, 1997), 224–353.
- “Reflections on the Baroque in the History of Science”. *Physis* **24** (1997), 675–694.
- “Barocco e scienza secentesca: un legame inesistente?” *Analecta Romana Instituti Danici* **25** (1997), 141–172.
- “Hero, Ps.-Hero, and Near Eastern Practical Geometry. An Investigation of *Metrica*, *Geometrica*, and other Treatises”, pp. 67–93 in Klaus Döring, Bernhard Herzhoff & Georg Wöhrle (eds), *Antike Naturwissenschaft und ihre Rezeption*, Band 7. Trier: Wissenschaftlicher Verlag Trier, 1997.
- “Changing Trends in the Historiography of Mesopotamian Mathematics: An Insider’s View”. *History of Science* **34** (1996), 1–32.
- “Sumerian: The Descendant of a Proto-Historical Creole? An Alternative Approach to the «Sumerian Problem»”. *AIQN. Annali del Dipartimento di Studi del Mondo Classico e del Mediterraneo Antico. Sezione linguistica. Istituto Universitario Orientale, Napoli* **14** (1992; publ. 1994), 21–72, Figs. 1–3.

Book reviews

- [Review of Corry, Leo, *Distributivity-like Results in the Medieval Traditions of Euclid’s Elements: Between Geometry and Arithmetic*. Cham etc.: Springer, 2021]. *Mathematical Reviews*, MR 4396934.
- “Observations and Reflections Concerning the First Volume of a New Edition of the *Liber abaci* [Essay review of Giuseppe Germano & Nicoletta Rozza (ed., trans.), Leonardo Pisano detto il Fibonacci, *Liber abaci. Il libro del calcolo*. Epistola a Michele Scoto – Prologo – Indice – Capitoli I–IV. Napoli: Paoli Loffredo, 2019]”. *Athenaeum* **109** (2021), 618–627.
- [Essay Review of Christine Proust & John M. Steele (eds.), *Scholars and Scholarship in Late Babylonian Uruk*. Cham etc.: Springer, 2019]. *Ganita Bhārati* **41** (2019; published 2021), 181–190.
- [Review of Enrico Giusti (ed.), *Leonardi Bigolli Pisano vulgo Fibonacci Liber Abbaci*. Firenze: Leo S. Olschki, 2020]. *zbMATH Open* Zbl 1457.01028 (2021)
- [Review of Rainer Gebhardt, *Die gedruckten Bücher von Adam und Isaak Ries: Verzeichnis aller bekannten Exemplare*. (Quellen zum Leben und Wirken Adam Ries’ und seiner Söhne, 5). Annaberg-Buchholz: Adam-Ries-Bund, 2017]. *Mathematical Reviews* MR 3822755.
- “A New Edition of the *Metrica* of Heron of Alexandria”. [Essay review of Fabio Acerbi & Bernard Vitrac (ed., trans.), *Héron d’Alexandrie, Metrica*. Pisa & Roma: Fabrizio Serra, 2014]. *Physis*, N.S. **53** (2018), 391–410.
- [Essay review of Annette Imhausen, *Mathematics in Ancient Egypt: A Contextual History*. Princeton and Oxford: Princeton University Press, 2016]. *Ganita Bhārati* **39** (2017), 163–183.
- [Review of Grégory Chambon, *Normes et pratiques: L’homme, la mesure et l’écriture en*

- Mésopotamie. I. Les mesures de capacité et de poids en Syrie Ancienne, d'Ebla à Émar.* Gladbeck: PeWe-Verlag 2011]. *Orientalistische Literaturzeitung* **110** (2015), 438–440.
- [Review of Stefan Deschauer (ed., trans.), *Die große Arithmetik aus dem Codex Vind. phil. gr. 65: Eine anonyme Algorismusschrift aus der Endzeit des Byzantinischen Reiches.* Wien: Verlag der Österreichische Akademie der Wissenschaften, 2014]. *Mathematical Reviews* MR 3308969.
- [Review of Anne-Marie Vlasschaert (ed.), *Liber Mahameleth.* (Boethius). Wiesbaden: Franz Steiner, 2010]. *Speculum* **90** (2015), 1177–1178.
- [Review of Luigi Pepe & Stefano Franchini (eds, trans.), Ruggiero Giuseppe Boscovich, *Viaggio astronomico e geografico nello Stato della Chiesa (175–1752).* Pisa: Edizioni della Normale, 2011]. *Zentralblatt MATH*, Zbl 1252.86001.
- [Review of Charles Burnett, *Numerals and Arithmetic in the Middle Ages.* (Variorum Collected Studies, CS 967). Farnham, Surrey, & Burlington, VT: Ashgate, 2010]. *Aestimatio* **9** (2012), 103–118.
- [Review of Fredrik Lång, *Mit liv som Pythagoras.* Helsinki: Schildts, 2005]. *Zentralblatt MATH* Zbl 1248.01005.
- [Review of Thomas E. Gilsdorf, *Introduction to Cultural Mathematics: With Case Studies in the Otomies and Incas.* Hoboken, New Jersey: Wiley, 2012]. *Zentralblatt MATH*, Zbl 1247.01003.
- [Review of Jacqueline Stedall, *From Cardano's Great Art to Lagrange's Reflections: Filling a Gap in the History of Algebra.* Zürich: European Mathematical Society, 2010]. *Zentralblatt MATH* Zbl 1231.01006.
- [Review of Eleanor Robson & Jacqueline Stedall (eds), *The Oxford Handbook of the History of Mathematics.* Oxford etc.: Oxford University Press, 2009]. *Aestimatio* **8** (2011), 225–232.
- [Review of Dieter Lelgemann, *Die Erfindung der Messkunst: Angewandte Mathematik im antiken Griechenland.* Darmstadt: Wissenschaftliche Buchgesellschaft, 2010]. *Mathematical Reviews* MR2722418 (2011m:01002).
- [Review of Massimo Tamborini (ed.), Girolamo Cardano, *Artis magna sive de regulis algebraicis liber unus.* Milano: FrancoAngeli, 2011]. *Zentralblatt MATH* Zbl pre05897186.
- [Review of Sabine Rommevaux (ed.), 2010. *Mathématiques et connaissance du monde réel avant Galilée* Montreuil: Omniscience, 2010]. *Centaurus* **53** (2011), 248–251.
- [Review of Stefan Deschauer, *Die Rigischen Rechenbücher. Spiegel einer lokalen mathematischen Tradition im Ostseeraum.* (Algorismus 73). Augsburg: ERV Dr. Erwin Rauner Verlag, 2010]. *Zentralblatt MATH* Zbl 1205.01008.
- [Review of Eleanor Robson, *Mathematics in Ancient Iraq: A Social History.* Princeton & Oxford: Princeton University Press, 2008]. *The Mathematical Intelligencer* **32:2** (2010), 65–67.
- [Review of Rainer Gebhardt (ed.), *Arithmetische und algebraische Schriften der frühen Neuzeit.* Tagungsband zum wissenschaftlichen Kolloquium "Arithmetische und algebraische Schriften der frühen Neuzeit", vom 22. – 24 April 2005 in der Berg- und Adam-Ries-Stadt Annaberg-Buchholz. (Schriften des Adam-Ries-Bundes Annaberg-Buchholz, 17). Annaberg-Buchholz: Adam-Ries-Bund, 2005]. *Historia Mathematica* **36** (2009), 278–279.
- [Review of Ahmed Djebbar, *L'Algèbre arabe: genèse d'un art.* Paris: Vuibert, 2005]. *Historia Mathematica* **34** (2007), 225–227.
- [Review of Sabine Rommevaux, *Clavius: une clef pour Euclide au XVI^e siècle.* (Mathesis). Paris: J. Vrin, 2005]. *Isis* **98** (2007), 621–622.
- [Review of H. L. L. Busard, *Campanus of Novara and Euclid's Elements.* 2 vols. (Boethius, 51,1–2). Stuttgart: Franz Steiner, 2005]. *Centaurus* **48** (2006), 329–330.

- [Review of Jean-Louis Gardies, *Du mode d'existence des objets de la mathématique*. (Problèmes et controverses). Paris: J. Vrin, 2004]. *Zentralblatt für Mathematik und ihre Grenzgebiete* 1086.01007.
- [Review of Stefan Deschauer, *Die Arithmetik-Vorlesung des Georg Joachim Rheticus, Wittenberg 1536*. Eine kommentierte Edition der Handschrift X-278 (8) der Estnischen Akademischen Bibliothek. (Algorismus, 42). Augsburg: Erwin Rauner, 2003]. *Zentralblatt für Mathematik und ihre Grenzgebiete* 1086.01017.
- [Review of Lucio Russo, *Die vergessene Revolution oder die Wiedergeburt des antiken Wissens*. Berlin etc.: Springer, 2005]. *Zentralblatt für Mathematik und ihre Grenzgebiete* 1080.01001.
- [Review of Jürgen Schönbeck, *Euklid. Um 300 v. Chr.* (Vita Matematica, 12). Basel etc.: Birkhäuser, 2003]. *British Journal for the History of Science* **38** (2005), 223–225.
- [Review of Maryvonne Spiesser (ed.), *Une arithmétique commerciale du XV^e siècle*. Le Compendy de la pratique des nombres de Barthélemy de Romans. (De Diversis artibus, 70) Turnhout: Brepols, 2004]. *Nuncius* **20** (2005), 481–482.
- [Review of Yusef Ziedan & Ismail Serageldin (eds), 2002. Ibn al-Haytham, *The trace on the Moon's face*. Complete text in English, French, German and Arabic. Alexandria: Bibliotheca Alexandrina, 2005] *Mathematical Reviews* MR2162277 (2006e:01005).
- [Review of Chalhoub, Sami (ed., trans.), *Die Algebra, Kitab al-Gabr wal-muqabala* des Aby Kamil Soga ibn Aslam. (Quellen und Studien über die Geschichte der Arabischen Mathematik, 7). Aleppo: University of Aleppo, Institute for the History of Arabic Science, 2004]. *Mathematical Reviews* MR2128341 (2006d:01009).
- [Review of Reviel Netz, *The Shaping of Deduction in Greek Mathematics: A Study in Cognitive History*. (Ideas in Context, 51). Cambridge: Cambridge University Press, 1999]. *Studia Logica* **80** (2005), 143–147.
- [Review of Hubert L. L. Busard (ed.), *Johannes de Tinemue's Redaction of Euclid's Elements, the So-Called Adelard III Version*. 2 vols. (Boethius, 45,1–2). Stuttgart: Franz Steiner, 2001]. *Centaurus* **46** (2004), 173–175.
- [Review of Ann E. Moyer, *The Philosophers' Game. Rithmomachia in Medieval and Renaissance Europe*. With an Edition of Ralph Lever and William Fulke, *The Most Noble, Auncient, and Learned Playe* (1563). Ann Arbor: University of Michigan Press, 2001] *Annals of Science* **61** (2004), 504–505.
- [Review of C. J. Tuplin & T. E. Rihll (eds), *Science and Mathematics in Ancient Culture*. Oxford: Oxford University Press, 2002]. *Zentralblatt für Mathematik und ihre Grenzgebiete* 1024.00024.
- [Review of John J. Contreni & Santa Casciani (eds), *Words, Image, Number: Communication in the Middle Ages*. (Micrologus Library, 8). Firenze: SISMEL – Edizioni del Galluzzo, 2002]. *Mathematical Reviews* **2004m** (2004), #01001.
- [Review of William H. Donahue (ed., trans.), Johannes Kepler, *Optics. Paralipomena to Witelo & Optical Part of Astronomy*. Santa Fe, New Mexico: Green Lion Press, 20002]. *Zentralblatt für Mathematik und ihre Grenzgebiete* 0987.01005.
- [Review of A. Presas i Puig, *Praktische Geometrie und Kosmologie am Beispiel der Architektur*. (Algorismus, 27). München: Institut für Geschichte der Naturwissenschaften, 1998]. *Mathematical Reviews* MR1872989 (2003f:01069).
- [Review of David A. King, *The Ciphers of the Monks. A Forgotten Number-Notation of the Middle Ages*. (Boethius, 44). Stuttgart: Franz Steiner, 2001]. *Annals of Science*.
- [Review of William H. Donahue (ed., trans.), Johannes Kepler, *Optics. Paralipomena to Witelo & Optical Part of Astronomy*. Santa Fe, New Mexico: Green Lion Press, 20002]. *Zentralblatt für Mathematik und ihre Grenzgebiete* 0987.01005.
- [Review of Hilary Gatti, *Giordano Bruno and Renaissance Science*. Ithaca & London: Cornell University Press, 1999]. *Mathematical Reviews* MR1828279 (2002h:01008).

- [Review of Roger Herz-Fischler, *The Shape of the Great Pyramid*. Waterloo, Ontario: Wilfrid Laurier Press, 2000]. *Mathematical Reviews* MR1788996 (2002f:01002).
- [Review of Danny Bernard Martin, *Mathematics Success and Failure among African-American Youth. The Roles of Sociohistorical Context, Community Forces, School Influence, and Individual Agency*. (Studies in Mathematical Thinking and Learning). Mahwah, N.J., & London: Lawrence Erlbaum, 2000]. *Zentralblatt für Mathematik und ihre Grenzgebiete* 0961.00006.
- [Review of Serafina Cuomo, *Pappus of Alexandria and the Mathematics of Late Antiquity*. (Cambridge Classical Studies). Cambridge: Cambridge University Press, 2000]. *British Journal for the History of Science* 34 (2001), 240-242.
- [Review of Menso Folkerts (ed.), *Die älteste lateinische Schrift über das indische Rechnen nach al-Hwārizmī*. (Bayer. Akad. d. Wiss. Phil.-hist. Kl. Abh. NF, 113) München: Verlag d. bayerischen Akademie der Wissenschaften, 1997.] *Centaurus* 42 (2000), 246-247.
- [Review of Imre Toth, *Aristotele e i fondamenti assiomatici della geometria. Prolegomeni alla comprensione dei frammenti non-euclidei nel «Corpus Aristotelicum» nel loro contesto matematico e filosofico*. (Temi metafisici e problemi del pensiero antico. Studi e testi, 56). Milano: Vita e Pensiero, ²1998]. *Zentralblatt für Mathematik und ihre Grenzgebiete* 954 (2000) #01002.
- [Review of Marshall Clagett, *Ancient Egyptian Science. A Source Book*. Volume III. *Ancient Egyptian Mathematics*. (Memoirs of the American Philosophical Society, 232). Philadelphia: American Philosophical Society, 1999]. *Mathematical Reviews* MR1698404 (2000j:01009).
- [Review of Edward Grant, *The Foundations of Modern Science in the Middle Ages. Their Religious, Institutional, and Intellectual Contexts*. Cambridge etc.: Cambridge University Press, 1996]. *Centaurus* 41 (1999), 299.
- “A Historian’s History [Essay review of Marshall Clagett, *Ancient Egyptian Science. A Source Book*. Volume One: *Knowledge and Order*. (Memoirs of the American Philosophical Society, 184). Volume Two: *Calendars, Clocks, and Astronomy*. (Memoirs of the American Philosophical Society, 214). Philadelphia: American Philosophical Society, 1989, 1995]. *Physis* 36 (1999), 237-255.
- [Review of H. L. L. Busard (ed.), Johannes de Muris, *De arte mensurandi*. A Geometrical Handbook of the Fourteenth Century. (Boethius, 41). Stuttgart: Franz Steiner, 1998]. *Zentralblatt für Mathematik und ihre Grenzgebiete* 0913.01011.
- [Review of Paulus Gerdes, *Ethnomathematik – dargestellt am Beispiel der Sona Geometrie*. Heidelberg etc.: Spektrum Akademischer Verlag, 1997]. *Zentralblatt für Mathematik und ihre Grenzgebiete* 908, #01001.
- [Review of Paulus Gerdes, *Femmes et Géométrie en Afrique Australe*. Paris: L’Harmattan, 1996]. *Zentralblatt für Mathematik und ihre Grenzgebiete* 881, #01002.
- [Review of Brigitte Englisch, *Die Artes liberales im frühen Mittelalter (5.–9. Jh.). Das Quadrivium und der Komputus als Indikatoren für Kontinuität und Erneuerung der exakten Wissenschaften zwischen Antike und Mittelalter*. (Sudhoffs Archiv, Beiheft 33). Stuttgart: Franz Steiner, 1994]. *Mathematical Reviews* MR1435961 (98a:01006.▲)
- [Review of Jan P. Hogendijk (ed., trans.), *Al-Sijzī’s Treatise on Geometrical problem Solving: Kitāb fī Tashīl al-Subul li-Istikhrāj al-Ashkāl al-Handasiya*. Tehran: Fatemi, 1996]. *Centaurus* 40 (1998), 350-351.
- [Review of Hubert L. L. Busard (ed.), *A Thirteenth-Century Adaptation of Robert of Chester’s Version of Euclid’s ‘Elements’*. 2 vols. (Algorismus. Studien zur Geschichte der Mathematik und der Naturwissenschaften, 17). München: Institut für Geschichte der Naturwissenschaften, 1996]. *Zentralblatt für Mathematik und ihre Grenzgebiete* 863 (1997), #01026.

- [Review of Paulus Gerdes & Gildo Bulafo, *Sipatsi. Technology, Art and Geometry in Inhambane*. Maputo: Instituto Superior Pedagógico, Moçambique, 1994]. *Zentralblatt für Mathematik und ihre Grenzgebiete* **863**, #01002.
- [Review of Maurice Caveing, *Essai sur le savoir mathématique dans la Mésopotamie et l'Égypte anciennes*. Lille: Presses Universitaires de Lille, 1994]. *Mathematical Reviews* MR1393937 (98b:01006).
- [Review of Francesca Incardona (ed., trans.), Euclide, *Ottica. Immagini di una teoria della visione*. Roma: Di Renzo Editore, Roma, 1996]. *Rivista di Storia della Scienza*, serie II **4** (1996), 171–176.
- [Review of Olivier Keller, *Préhistoire de la Géométrie: Premiers éléments d'enquête, premières conclusions*. (Science et Techniques en Perspective, Vol. 33.) 98 +[16] pp., figs., bibl. Nantes: Université de Nantes, 1995]. *Isis* **87** (1996), 713–714.
- [Review of Hannes D. Galter (ed.), *Die Rolle der Astronomie in den Kulturen Mesopotamiens*. Beiträge zum 3. Grazer Morgenländigen Symposium (23.–27. September 1991). (Grazer Morgenländischen Studien, 3). Graz, 1993] *Archives Internationales d'Histoire des Sciences* **46** (1996), 159–161.
- [Review of Peter Dear, *Discipline and Experience: The Mathematical Way in the Scientific Revolution*. (Science and Its Conceptual Foundations). Chicago & London: University of Chicago Press, 1995]. *Mathematical Reviews* MR1355079 (97b:01007).
- [Review of Sylvia Couchoud, *Mathématiques Égyptiennes. Recherches sur les connaissances mathématiques de l'Égypte pharaonique*. Paris: Le Léopard d'Or, 1993]. *Mathematical Reviews* MR1353237 (97c:01005).
- [Review of Paulus Gerdes, *African Pythagoras. A Study in Culture and Mathematics Education*. Maputo: Instituto Superior Pedagógico, 1994.] *Zentralblatt für Mathematik und ihre Grenzgebiete* **840** (1996), #01001.
- “Reflections on the Baroque in the History of Science”. [Essay Review of: Gunnar Eriksson, *The Atlantic Vision: Olaus Rudbeck and Baroque Science*. (Uppsala Studies in the History of Science, 19). Canton (Mass.), Science History Publications, 1994]. *Physis* **24** (1997), 675–694.
- [Review of Marshall Clagett, *Ancient Egyptian Science. A Source Book*. Volume II. *Calendars, Clocks, and Astronomy*. (Memoirs of the American Philosophical Society, 214). Philadelphia: American Philosophical Society, 1995]. *Mathematical Reviews* MR 1332718 (96i:01007).
- [Review of P. L. Butzer & D. Lohrman (eds), *Science in Western and Eastern Civilization in Carolingian Times*. Basel: Birkhäuser, 1993]. *Mathematical Reviews* MR1297546 (95m:01004).
- [Review of I. Mueller (ed.), *Peri Tōn Mathēmatōn*. (*Apeiron* **24**:4 (1991)). Edmonton, Alberta: Academic Printing and Publishing, 1992]. *Historia Mathematica* **22** (1995), 84–87.
- [Review of B. Englisch, *Die Artes liberales im frühen Mittelalter (5.–9. Jh.)*. *Das Quadrivium und der Komputus als Indikatoren für Kontinuität und Erneuerung der exakten Wissenschaften zwischen Antike und Mittelalter*. Stuttgart: Franz Steiner, 1994]. *Centaurus* **37** (1994; publ. 1995), 355–356.
- [Review of Annemarie Schimmel, *The Mystery of Numbers*. New York & Oxford: Oxford University Press, 1993]. *Isis* **85** (1994), 300301.
- [Review of L. Streefland (ed.) 1993, *The Legacy of Hans Freudenthal*. Dordrecht etc.: Kluwer, 1993. Identisk med *Educational Studies in Mathematics* **25**:1–2 (1993)]. *Zentralblatt für Mathematik und ihre Grenzgebiete* 0792.01035.
- [Review of de Siebenthal, *Les Mathématiques dans l'Occident médiéval*. Lausanne: Éditions Terre Haute, 1993]. *Mathematical Reviews* 1218621 (94k:01004).