

# **MATTEO VALLERIANI**

## **CURRICULUM VITAE**

Max Planck Institute for the History of Science

Technische Universität Berlin

University of Tel Aviv

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E-mail: [valleriani@mpiwg-berlin.mpg.de](mailto:valleriani@mpiwg-berlin.mpg.de)

Born in Ferrara, Italy. June 28, 1972

Married with children

## LANGUAGES

Latin, English, German, Italian (Mother Tongue), scholastic French

## POSITION

- 05/2018 – to date Professor for Special Appointment (Digital Humanities) at the University of Tel Aviv, Faculty of Humanities
- 09/2017 – to date Honorary Professor in History of Science at the Technische Universität Berlin
- 12/2011 – to date Senior Research Fellow and Research Group Leader (W2) at the Max Planck Institute for the History of Science, Dept. I, Berlin

## PRESENT PROJECTS

The Sphere: Knowledge System Evolution and the Shared Scientific Identity of Europe  
<https://sphaera.mpiwg-berlin.mpg.de>

Images in Science

Machine Learning applied to the analysis of Early Modern corpora of European university textbooks (in the frame of the Berlin Center for Machine Learning, financed by the BMBF-opening)

Digital humanities & Computational History

- Creation and development of an electronic environment for the Publication of Historical Sources in Open Access Modality (EOS) [www.edition-open-sources.org](http://www.edition-open-sources.org)
- Development of mathematical models in the frame of network theory for the use in History Writing (in collaboration with the Complex Multilayer Network Lab of the Foundation Bruno Kessler)
- Linked Open Data
- Computer-based semantic analysis of text corpora (in collaboration with the DH dept. of the Foundation Bruno Kessler - Sara Tonelli)

## PAST PROJECTS

Galileo Engineer

Late Medieval and Early Modern Mediterranean Shipbuilding

Pratolino: Science and Technology in a Garden

Ancient Water Technology

Mapping of Water Technology (Excellence Cluster TOPOI, Project A-3-3)

The Structures of Practical Knowledge

## EDITORIAL WORK

Editor-in-Chief of Edition Open Sources ([www.edition-open-sources.org](http://www.edition-open-sources.org))

Editor of *SpringerBriefs in History of Science and Technology*

Contributing Editor of the Journal *Technology and Culture*

Advisory Editor of the Journal *HOST*, DeGruyter

Editor of the Section “Natural Philosophy, Natural History and Technology” of the “Encyclopedia of Renaissance Philosophy” (Springer Nature)

2015 – 2017

Advisory Editor of the Journal *Isis*

## ACADEMIC RECORDS

- 2018  
Nomination to Professor for Special Appointment  
Tel Aviv University, Faculty of Humanities
- 2017  
Nomination to Honorary Professorship in History of Science  
Technische Universität Berlin
- 2017  
Guest professorship  
University of Bucharest, Romania
- 2016  
Elected Member of the German National Committee DHST-IUHPS
- 2016  
Guest Professorship  
Cohn Institute for the History and Philosophy of Science and Ideas. University of Tel Aviv, Israel.
- 2015  
Guest Professorship  
Cohn Institute for the History and Philosophy of Science and Ideas. University of Tel Aviv, Israel.
- 2014  
Silverman Professorship, Cohn Institute, University of Tel Aviv, Israel
- 2012–to date  
Coordinator of the PhD candidates of Dept. 1 at the Max Planck Institute for the History of Science
- 12/2011–to date  
Research Group Leader (W2) at Dept. I at the Max Planck Institute for the History of Science in Berlin.
- 04/2011–11/2011  
Permanent Research Fellow in Dept. I at the Max Planck Institute for the History of Science in Berlin.
- 02/2011  
Call to a tenure track position in history of early modern science at Princeton University (declined)
- 2011  
Research Group Leader: CSG-III, Excellence Cluster TOPOI, Berlin
- 02/2009–05/2009  
Visiting scholar at the Dept. of History of Science, Harvard University, Cambridge, USA (DAAD Fellowship).

- 2002–2008 PhD Student at the Max Planck Institute for the History of Science, Berlin (*Disputatio*: Humboldt University, November 4, 2008: *Summa cum laude*)
- 09/2002 Summer school in the History of Science, Paris
- 05/2001 The 4th International Laboratory for the History of Science: *Art, Science and Techniques of Drafting in the Renaissance* (Florence and Vinci).
- 1998–2000 Project assistant at the Max Planck for the History of Science of Berlin  
Project: History of Mechanics
- 1998 Scholarship at the University of Padua for post-graduated specialization
- 1997–1999 Free collaboration with Prof. Silvio Bergia, Department of Theoretical Physics of the University of Bologna
- 1997 University Degree at the University of Bologna in Philosophy of Science (110/110 *cum laude*), Prof. A. Artosi
- 1993 Course of study at the European School of Logic at the University of Constance

## EXHIBITIONS

- 2016 Images don't lie (?). University of Tel Aviv  
(Project Leader)
- 2013 Archimede e la nascita della scienza in Europa. Musei Capitolini, Roma  
(Member of the Curatorial Team).
- 2011 The Antichytera Mechanism  
Max Planck Institute for the History of Science, Berlin
- 2007 Pratolino – The History of Science in a Garden  
Virtual Exhibition in cooperation with the Ente Provicina of Florence  
<http://pratolino.mpiwg-berlin.mpg.de>
- 2005 Einstein – Chief Engineer of the Universe (Berlin, 16.05.2005 – 30.09.2005)  
Virtual Exhibition: Chief Engineer of the Universe  
<http://www.einsteinausstellung.de>  
University of Pavia (Italy), Dep. of Physics "A. Volta"  
Travel Exhibition: Einstein ingegnere dell'universo

## ORGANIZATION OF INTERNATIONAL WORKSHOPS & CONFERENCES

10/2018	Conference (together with Prof. Dr. Giulia Giannini): The Epistemic Functions of Vision in Science Università degli Studi di Bergamo & Max Planck Institute for the History of Science Venue: Bergamo
06/2018	Workshop: Semantic Analysis of Historical Texts by Means of Tools from the Computational Linguistics Max Planck Institute for the History of Science, Berlin
04/2018	Workshop: Multilayered Networks and Diffusion of Knowledge Innovations Max Planck Institute for the History of Science
02/2018–to date	Working Group: The Authors of the Early Modern Commentaries of the treatise <i>De sphaera</i> of Johannes Sacrobosco Max Planck Institute for the History of Science, Berlin
10/2017	Conference: The Mathematics Beyond Digital Humanities University of Bucharest (together with Dana Jalobeanu)
11/2016	Workshop (together with Prof. Dr. Thomas Duve): Pragmatic and Practical Knowledge and Literature Max Planck Institute for Legal History, Frankfurt Max Planck Institute for the History of Science, Berlin (venue)
10/2012–03/2017	Working Group: The Structures of Practical Knowledge Max Planck Institute for the History of Science, Berlin
10/2012	Conference (together with Prof. Dr. Jürgen Renn and Dr. Helge Wendt): The Globalization of Knowledge in the Mediterranean World of Post-Antiquity Max Planck Institute for the History of Science, Berlin
09/2012–06/2012	Series of eleven international colloquia with the title “Practical Knowledge” Max Planck Institute for the History of Science, Berlin
08/2012	Workshop: Aristotelisierung der Antike Max Planck Institute for the History of Science, Berlin and in collaboration with the Excellence Cluster TOPOI, Berlin
12/2008	Workshop: The Patent System in Renaissance Italy: XV and XVI Centuries Max Planck Institute for the History of Science, Berlin
2007	Workshop: The Reception of Hero’s Pneumatics during the XVI Century: Giovanbattista della Porta Max Planck Institute for the History of Science, Berlin in the frame of the project CRC 644: Transformations of Antiquity
2007	Galilean Lectures. Berlin Edition 2007 Max Planck Institute for the History of Science, Berlin in collaboration with the Museo Galileo, Florence

2006 Workshop: Transferring Technical Knowledge and Innovating in Europe, c.1200-c.1800  
Max Planck Institute for the History of Science, Berlin in the frame of the project CRC 644: Transformations of Antiquity

2001 Workshop: Shipbuilding Practice and Ship Design Methods from the Renaissance to the XVIII Century  
Max Planck Institute for the History of Science, Berlin (with Dirk Wintergrün)

## AWARDS & MEMBERSHIPS

2018–to date Member of the Scientific Committee of the Fondazione Cardinale Francesco Maria del Monte, Rome.

2016–2018 PR-Officer of the European Society for the History of Science and Technology

2016–to date Member of the European Society for the History of Science

2015–to date Member of the Association “Friend of the Villa Vigoni”

2014 Elected Member of the Académie Internationale d’Histoire des Sciences, Paris

2014 Silverman Professorship. The Cohn Institute for History and Philosophy of Science and Ideas. University of Tel Aviv, Israel

2011 Paul-Bunge-Preis  
Hans Jenemann Stiftung. Gesellschaft Deutscher Chemiker

2010 Marc-Auguste Pictet Prize  
Société de Physique et d’Histoire Naturelle of Geneva

2007 International Museum Communication Award 2007 (3rd position) for the virtual Exhibition. Einstein – Ingenieur des Universums (co-author)

1998 Carlo D’Amelio Award in Philosophy of Science. Department of Philosophy of the University of Naples “Federico II”

# MATTEO VALLERIANI

## PUBLICATION LIST

Max Planck Institute for the History of Science

Technische Universität Berlin

University of Tel Aviv

Die ausgewählten Publikationen sind rot markiert und man kann sie mit folgendem Link herunterladen:

[https://www.dropbox.com/sh/hjtictypshksvi/AAC4eI9UpTdk\\_\\_dQ9gCxPzN0a?dl=0](https://www.dropbox.com/sh/hjtictypshksvi/AAC4eI9UpTdk__dQ9gCxPzN0a?dl=0)

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## MONOGRAPHS

M. Valleriani, *The Sphere. Knowledge System Evolution and the Shared Scientific Identity of Europe*, in preparation.

M. Valleriani, *Metallurgy, Ballistics and Epistemic Instruments. The «Nova scientia» of Nicolò Tartaglia*, Edition Open Access, Berlin, 2013.

## SELECTED

M. Valleriani, *Galileo Engineer*, Boston Studies for the Philosophy and History of Science, Springer, Dordrecht, 2010.

## EDITED BOOKS

M. Valleriani, *De Sphaera of Johannes de Sacrobosco in the Early Modern Period: The Authors of the Commentaries*, Springer Nature, In press.

R. Feldhay, J. Renn, M. Valleriani, M. Schemmel (eds.), *Emergence and Expansion of Pre-Classical Mechanics*, Boston Studies, Springer, Dordrecht, 2018.

M. Valleriani, *The Structures of Practical Knowledge*, Springer, Dordrecht, 2017.

M. Valleriani (Guest ed.), *Appropriation and Transformation of Ancient Science*, Nuncius, 29, 2014.

J. Renn, J. Staude, M. Valleriani (eds.), *Galilei und die Anderen. Hintergründe einer Revolution der Astronomie*, in *Sterne und Weltraum*, Dossier, 2009.

H. Nowacki, M. Valleriani, *Shipbuilding Practice and Ship Design Methods from the Renaissance to the 18th Century—a Workshop Report*, Preprint 245, MPIWG, 2003.

## PEER REVIEWED PAPERS

M. Valleriani, “Musica mundana: Cosmic Harmony between University and Publishers.” In *Sound Studies: An Interdisciplinary Journal* (Accepted after review. Under revision).

M. Valleriani, “Math is Revolutionising the Study of History. Here is how”. In *The Conversation*, 2018 (<https://theconversation.com/maths-is-revolutionising-the-study-of-history-heres-how-85710>)

F. Kräutli, M. Valleriani, “CorpusTracer: A CIDOC Database for Tracing Knowledge Networks,” in *Digital Scholarship in the Humanities*, doi: 10.1093/llc/fqx047, 2017

## SELECTED

M. Valleriani, “Ancient Pneumatics Transformed during the Early Modern Period,” in *Nuncius*, 29, 2014, 127–173.

## SELECTED

M. Valleriani, “Galileo’s Abandoned Project on Acoustic Instruments at the Medici Court,” in *History of Science*, 50, 1, 2012, 1–31.

M. Valleriani, “The transformation of Aristotle’s «Mechanical Questions.» A bridge between the Italian Renaissance Architects and Galileo’s First New Science,” in *Annals of Science*, 66, 2, 2009, 183–208.



M. Valleriani, "Galileo in the Role of the Caster's Assistant: The 1634 Bell of the «Torre del Mangia» in Siena," in *Galilaeana*, V, 2008, 89–112.

J. Renn, M. Valleriani, "Galileo and the Challenge of the Arsenal," in *Nuncius*, 16, 2, 2001, 481–503.

S. Bergia, M. Valleriani, "Relatività ristretta: convenzione o nuova concezione del mondo?," in *Giornale di Fisica*, 39, 4, 1998, 199–221.

#### CONTRIBUTIONS TO EDITED

#### VOLUMES

M. Valleriani, "Prolegomena to the Study of Early Modern Commentators on Johannes de Sacrobosco's Tractatus de sphaera," in *De Sphaera of Johannes de Sacrobosco in the Early Modern Period: The Authors of the Commentaries*, ed. by M. Valleriani, Springer Nature, In press.

M. Valleriani, N. Citron, "The World of Konrad Tockler," in *De Sphaera of Johannes de Sacrobosco in the Early Modern Period: The Authors of the Commentaries*, ed. by M. Valleriani, Springer Nature, In press.

M. Valleriani, "The Mechanics of the Heart in the Hellenistic Period," in *The Body as Machine in Antiquity*, ed. by M. Gerolemou and G. Kazantzidis, Cambridge University Press, In Press

M. Valleriani, "Structure and Epistemology of the Practical Knowledge of the Venetian Arsenal," in *Les ingénieurs, des intermédiaires? Transmission des connaissances et coopération chez les ingénieurs (Europe, XV–XVIII s)*, ed. by L. Hilaire-Perez, PUM Presses universitaires du Midi, Toulouse, In press.

M. Valleriani, "The Epistemology of Practical Knowledge," in *The Structures of Practical Knowledge*, ed. by M. Valleriani, Springer, Dordrecht, 2017, 1–19.

#### SELECTED

M. Valleriani, "The Tracts on The Sphere. Knowledge Reconstruct over a Network," in *The Structures of Practical Knowledge*, ed. by M. Valleriani, Springer, Dordrecht, 2017, 421–473.

M. Valleriani, "Forms and Functions of Codification of Knowledge: An Example from the Work of Joseph Furtenbach," in *Special Issue of Zeitsprünge - Studies in Early Modern History, Culture, and Science*, ed. by H. Roller and J. Lazardzig, 2016, 457–469.

S. M. Keiser, M. Valleriani, "The Organ of the Villa d'Este in Tivoli and the Standards of Pneumatic Engineering in the Renaissance," in *Gardens, Knowledge and the Science in the Early Modern Period*, ed. by V. Remmert and J. Wolschke-Bulmahn, Birkhäuser, Basel, 2016, 1–26.

#### SELECTED

M. Valleriani, "Hydrostatics and Pneumatics in Antiquity," in *A Companion to Science, Technology, and Medicine in Ancient Greece and Rome*, ed. by Georgia L. Irby, Wiley-Blackwell, 2 Voll, 2016, Vol. 1, 145–160.

J. Renn, D. Wintergrün, R.Lalli, M. Laubichler, M. Valleriani, "Netzwerke als Wissensspeicher," in *Die Zukunft der Wissensspeicher. Forschen, Sammeln und Vermitteln im 21. Jahrhundert*, ed. by J. Mittelstraß und U. Rüdiger, UVK, 2016, 35–80.

J. Renn, M. Valleriani, "Elemente einer Wissensgeschichte der Architektur," in *Wissensgeschichte der Architektur*, ed. by Jürgen Renn, Wilhelm Osthues, Hermann Schlimme, Edition Open Access, Berlin, 3 Voll, 2014, I, 7–54.

M. Valleriani, "Agostino Ramelli as Recipient of a New Science of Ballistics," in *Mapping Spaces. The Influence of Early Modern Science on 17th Century Landscape Painting*, ZKM Museum of Contemporary Art, Karlsruhe, 2014, 318–323.

M. Valleriani, "La natura pratica del Trattato della Sfera di Galileo Galilei," in *Tintenfass and Teleskop*, ed. by A. Albrecht, G. Cordibella and V. Remmert, DeGruyter, Berlin, 2014, 321–335.

M. Valleriani, "Der Weg zu den «neuen Wissenschaften»," in *Physik Journal*, 13, 2014, 43–46.

M. Valleriani, "Sixteenth Century Hydraulic Engineers and the Emergence of Empiricism," in *Conflicting Values of Inquiry: Ideologies of Epistemology in Early Modern Europe*, ed. by T. Demeter, K. Murphy and C. Zittel, Brill, Leiden, 2014, 41–68.

M. Valleriani, "Technisches Wissen," in *Der Neue Pauly Supplemente Band 9, Renaissance Humanismus*, ed. by Manfred Landfester, Verlag J. B. Metzler Stuttgart Weimar, 2014, 954–962.

M. Valleriani, "Weight and Resistance," in *Matters of Weight: Force, Gravity and Aesthetics in the Early Modern Period*, ed. by D. Kim, Edition Imorde, Berlin, 2013, 37–50.

M. Valleriani, "Archimedes Hydrostatics in the Work of Nicolò Tartaglia," in *Archimedes: the Art and Science of Invention. Rome, Musei Capitolini, May 31, 2013 – January 12, 2014*, ed. by G. di Pasquale, C. Parisi Presicce, Giunti, Florence, 2013, 160–163.

M. Valleriani, "L'idrostatica di Archimede nell'opera di Nicolò Tartaglia," in *Archimede: arte e scienza dell'invenzione. Roma, Musei Capitolini, 31 maggio 2013 – 12 gennaio 2014*, ed. by G. di Pasquale, C. Parisi Presicce, Giunti, Firenze, 2013, 160–163.

M. Valleriani, "L'esperienza e la nascita della balistica all'inizio dell'età moderna," in *La scienza delle armi. Luigi Fernando Marsili 1658–1730*, a cura del Museo di Palazzo Poggi, Pendragon, Bologna, 2012, 93–108.

M. Valleriani, "Knowledge Agora: The Role Of The Officials," in *Cultures of Knowledge. Technology in Chinese History*, ed. by D. Schäfer, Brill, 2011, 233–249.

M. Valleriani, "The Garden of Pratolino: Ancient Technology Breaks Through Modern Iconology's Barriers," in *Ludi Naturae. Transformations of an Ancient Topos in Science and Art*, ed. by H. Böhme, R. Felfe, N. Adamowski, Fink Verlag, 2011, 121-142.

M. Valleriani, "The War in Ariosto's «Orlando Furioso.» Snap-Shot of The Passage From Medieval to Early Modern Technology," in *War in Words*, ed. by M. Formisano and H. Böhme, DeGruyter, Berlin, 2010, 375-390.

M. Valleriani, "Il ruolo della pneumatica antica durante il Rinascimento: l'esempio dell'organo idraulico nel giardino di Pratolino," in *La civiltà delle acque dal Medioevo al Rinascimento*, ed. by A. Calzona and D. Lamberini, series «Ingenium», Olschki, Florence, 2010, 2 vols, vol. 2, 613-632.

M. Valleriani, "Der Garten von Pratolino," in *Wunderforschung*. Catalogue of the exhibition *Wunderforschung*, ed. by K. Bödecker and C. Hammer, Nicolai Verlag, Berlin, 2010, 95-102.

M. Valleriani, "Galileis astronomische Werkstatt," in *Sterne und Weltraum*, 2, 2009, 42-51.

Valleriani, "Galilei, Galileo: Dialogo di Galileo Galilei linceo matematico straordinario dello studio di Pisa e filosofo e matematico primario del Serenissimo Gr. Duca di Toscana" in *Kindlers Literatur Lexikon Vol. 6*, ed. by H. L. Arnold, Metzler, Stuttgart, 2009, 3rd edition, 49-50.

M. Valleriani, "The Transformation and Reconstruction of Hero of Alexandria's «Pneumatics» in the Garden of Pratolino," in *Pratolino: A Mith at the Gates of Florence*, ed. by L. Ulivieri and S. Merendoni, Marsilio, Venezia, 2008, 155-182.

M. Valleriani, "From Condensation to Compression: How Renaissance Italian Engineers Approached Hero's Pneumatics," in *Übersetzung und Transformation*, ed. by H. Böhme, C. Rapp, W. Rösler, DeGruyter, 2007, 333-354.

J. Renn, F. Bevilacqua (eds.), *Albert Einstein. Ingegnere dell'universo*, Skirà, 2005. (co-author)

J. Renn (ed.), *Albert Einstein, Chief Engineer of the Universe, Dokumente eines Lebensweges*, Wiley-VCH, 2005. (co-author)

M. Valleriani, "A View on Galileo's Ricordi Autografi. Galileo Practitioner in Padua," in *Largo Campo di Filosofare. Euro Symposium Galileo, 2001*, ed. by J. Montesinos and C. Solís, Fundación Canaria Orotava de Historia de la Ciencia, 2001, 281-292.

M. Valleriani, "Some Episodes of the Hidden History of a non Traditional Interpretation of the Theory of General Relativity," in *Atti del XVIII Congresso di Storia della Fisica e dell'Astronomia*, Como, 1999, Proceedings.

## ONLINE PUBLICATIONS

Transcription of Oreste Vannoccio Biringuccio, "Libro degli artifizii spiritali," 1582, in ECHO (<http://echo.mpiwg-berlin.mpg.de/content/historymechanics/siena>), 2006.

## REVIEWS

Leslie Tomory. *The History of the London Water Industry, 1580–1820*, Johns Hopkins University Press, Baltimore, 2017 in *Isis*, in press.

Horst Bredekamp, *Galileis denkende Hand. Galileo's O*. Vol. 4. DeGruyter, 2014 in *Historische Zeitschrift*, 2017, Vol. 304, 231–233.

Lawrence Lipking, *What Galileo Saw. Imagining the Scientific Revolution*, Cornell University Press, Ithaca, 2014 in *The American Historical Review*, 2016, Vol. 121, 2, 637–638.

Paolo Galluzzi, «Libertà di filosofare in naturalibus». *I mondi paralleli di Cesi e Galileo*, *Scienze e Lettere*. Editore commerciale, Roma, 2014 in *Isis*, 2015, 109, 4, 919–920.

Alan C. Bowen, *Simplicius on the Planets and Their Motions: In Defense of a Heresy*, Brill Academic Publishers, 2012 in *Isis*, 106, 2015, 1, 170–171.

M. Bucciantini, M. Camerota, and F. Giudice, *Il telescopio di Galileo: Una storia europea*, Giulio Einaudi editore, 2012 in *Isis*, 105, 2014, 431–432.

M. A. Peterson, *Galileo's Muse*, Harvard University Press, 2012 in *Isis*, 104, 2013, 837–838.

V. Maraglino, *Scienza antica in età moderna. Teoria e Immagini*, Cacucci Editore, 2012, in *Aestimatio – Princeton*, 10, 2013.

J. Dougal Fleming (ed.), *The Invention of Discovery, 1500 – 1700*, Ashgate, 2011, in *Isis*, 103, 3, 2012, 588–589.

P. Galluzzi, *Tra atomi e indivisibili*, Olschki, Firenze, 2011 in *Studia leibnitiana*, 43, 3, 2013, 590–591.

J. L. Heilbron, *Galileo*, Oxford University Press, 2010 in *The British Journal for the History of Science*, 44, 4, 163, 2011, 590–591.

Mariska Leunissen, *Explanation and Teleology in Aristotle's Science of Nature*, Cambridge, Cambridge University Press, 2010 in *Centaurus*, 53, 4, 2011, 338–340.

David Wootton, *Galileo Watcher of the Sky*, Yale University Press, 2010 in *Reviews in History*. Peer reviewed Online Journal of the Institute of Historical Research of the School of Advanced Study – University of London, 2011.

**Prof. Dr. MATTEO VALLERIANI**

**RELEVANT TALKS**

Max Planck Institute for the History of Science

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- 03/2019 *Keynote: Mathematically Hardcoded Historical Reasoning: Is it Relevant for the Development of Artificial Intelligence?*  
*Conference: From Automata to Robotics*  
*University of Lisbon, Portugal*
- 02/2019 *Invited Lecture: The Role and the Limits of Social Network Analysis in Computational History*  
*Mitchell Center*  
*University of Manchester*
- 11/2018 *Invited lecture: The Role of Languages in the Process of Diffusion of Knowledge Innovation in the Early Modern Period*  
*Ludwig Boltzmann Institute for Neo-Latin Studies*  
*University of Innsbruck*
- 10/2018 *Vision on Vision: Early Modern Scientific Images on Cosmology Explored by Means of Second Order Images (together with Florian Kräutli)*  
*Conference: The Epistemic Functions of Vision in Science (Matteo Valleriani & Giulia Giannini)*  
*Max Planck Institute for the History of Science & Università degli Studi di Bergamo (venue)*
- 09/2018 *Musica mundana: Cosmic Harmony between Universities and Publishers*  
*Workshop: Sound Objects in Flux: Knowledge, Science, Heritage (Viktoria Tkaczyk, Rebecca Wolf, Leendert van der Miesen)*  
*Max Planck Institute for the History of Science*
- 04/2018 *Invited lecture: The Epistemic Function of the "Theatres of Machines"*  
*Workshop: New Approaches to Preindustrial Technology: Bodies, Minds, and Machines (Paola Bertucci)*  
*Yale University*
- 04/2018 *Session: Calculating Knowledge: What Your Project Needs to Fully Benefit from Digital Humanities (Organizer together with Angela Dressen)*  
*Annual Meeting of the Renaissance Society of America, New Orleans*
- 02/2018 *The Sphere. Knowledge System Evolution and the Shared Identity of Europe. Launch of the Database online*  
*Max Planck Institute for the History of Science*
- 12/2017 *Invited lecture: Revisiting the Réduction en art: The Epistemology of the Practical Knowledge of the Venetian Arsenal*  
*Workshop: Engineers as brokers of knowledge (Europe, 15th-18th centuries), Paris*
- 12/2017 *Invited lecture: The Mechanics of the Heart*  
*Workshop: The Body as Machine in Antiquity - Towards an Early History of Iatromechanics*  
*University of Cyprus*
- 10/2017 *Structure and Network of Cosmological Knowledge*  
*Workshop (co-organizer): Graphs, Networks and Digital Humanities, Bucharest*
- 10/2017 *Keynote: The Common Scientific Identity. Structure and Network of Cosmological Knowledge*  
*All-Russia Science Festival, Moscow*

- 07/2017 Visualization of Networks of Knowledge. The Case of the Tract De sphere during the Early Modern Period  
25th ICHST, Rio de Janeiro
- 06/2017 Invited lecture: Renaissance Gardening and Water Management  
The History of Water Management, Lisbon (organized by Ana Rodrigues)
- 03/2017 Keynote: Praktisches Wissen und handwerkliches Können in der italienischen Renaissance: eine Entdeckungstour zu den Fundamenten der wissenschaftlichen Revolution  
Istituto di Cultura Italiana, Ambasciata d'Italia, Berlin
- 02/2017 Invited lecture: Practical and Theoretical Knowledge from Medieval Forensic Anatomy to Modern Ballistics  
Series: Vielfalt der Wissensformen. Humboldt Universität zu Berlin
- 01/2017 Invited lecture: The Sphere: Knowledge System Evolution and the Shared Scientific Identity in Europe  
Institute of Research in the Humanities, University of Bucharest
- 01/2017 Invited lecture: The Structures of Practical Knowledge  
CELFIS, University of Bucharest
- 01/2017 Netzwerktheorie und Geschichtsschreibung: Die Analyse der Kommentartradition des Sphaera von Sacrobosco (13.–17. Jh.)  
Technische Universität Berlin, Forschungskolloquium
- 09/2016 Invited lecture: Medieval Cosmology and the Evolution of the Early Modern Scientific Knowledge System.  
2nd International Conference on the History of Physics and Echophysics.  
Poellau. Austria
- 06/2016 The Systematization of Knowledge at Pope's Will: The Medieval Liturgic Calendar Session organized by Dagmar Schäfer: Systems Thinking: Complexity and Simplification when "Making Things Work"  
Annual Meeting of the Society for the History of Technology (SHOT), Singapore
- 05/2016 Invited Lecture: The Role of Cosmology from the Medieval to the Early Modern Scientific Knowledge System: Johannes de Sacrobosco's Treatise De sphaera  
Conference: The Promise of the Vatican Library, University of Notre Dame, Illinois, USA
- 05/2016 Invited Lecture: Netzwerktheorie und Geschichtsschreibung: Die Analyse der Kommentartradition der *Sphaera* von Sacrobosco in der Frühneuzeit  
Cologne Center for eHumanities, Cologne, Germany
- 05/2016 Invited Lecture: Das Wissenssystem begründet auf dem geozentrischen Weltbild. Seine Entwicklung vom Spätmittelalter bis zum Ende der Frühneuzeit anhand der Tradition der Traktate *De sphaera* von Joannes de Sacrobosco  
Thomas-Institut der Universität zu Köln, Germany
- 04/2016 Invited Lecture: The Epistemology of Practical Knowledge  
Seminar of Historical Epistemology (L. Guzzardi).  
Dept. for Philosophy, Università degli Studi di Milano, Italy

- 04/2016 The Influence of Clavius's Scientific Academy on the Teaching of Mathematics in Europe  
Conference: Critical Reflections on Alternative Paths to Modernity. Conference in Honor of Rivka Feldhay  
Cohn Institute, Tel Aviv University, and Van Leer Institute, Jerusalem, Israel
- 04/2016 Das Netzwerk der Traktate *De sphaera* von Sacrobosco in der Frühen Neuzeit und das Subnetzwerk der Traktate *Sphaera Ioannis de Sacrobosco* von Christophorus Clavius  
Together with D. Wintergrün  
Workshop: Wissenschaftsgeschichte und Digital Humanities in Forschung und Lehre (K. Hentschel und H. Weber). University of Göttingen, Germany
- 02/2016 Commentary as a Mean of Knowledge Production. Technology and the Mechanical Questions  
Workshop: Physico-Mathematical Knowledge on the Move: From Aristotle to Seventeenth Century Jesuits  
Minerva Humanities Center, Tel Aviv University, Israel
- 01/2016 Invited Lecture: The Changing Epistemic Function of Measurement in the Early Modern Period. Tartaglia's Quadrant and Galileo's Thermoscope  
Egenis Seminar Series: "Measurement in Early Modern Science and Medicine."  
University of Exeter, UK
- 11/2015 A Subnetwork of Treatises: The Editions of Clavius's *Sphere of Sacrobosco* in the Early Modern Network of Tracts on *The Sphere*  
Together with D. Wintergrün  
Workshop: Jesuit Science from a Digital Perspective. The Jesuit Science Network (V. Remmert). University of Wuppertal, Germany
- 11/2015 Translation as a Means for the Expansion of Knowledge Networks and at the Basis of Processes of Accumulation of Knowledge: The Case of the Tradition of Treatises of Sacrobosco's *De sphaera*  
Conference: Narratives of Translation (S. Brentjes). Berlin
- 09/2015 Invited Lecture: Network of Knowledge and the Tradition of Sacrobosco's Tracts *de sphaera*  
Institut de recherche et d'histoire des textes, Paris
- 06/2015 La 'cornetta' acustica di Galileo. Ripresa di un progetto mai terminato  
Seminario di Studi su Galileo Galilei  
Università degli Studi di Milano & Università degli Studi Bergamo  
Gargnano, Italy
- 05/2015 Network and Identity: The Shared Scientific Knowledge of the Tracts *De sphaera Scientiae* 2015, Toronto, Canada
- 04/2015 Invited Lecture: Network of Knowledge and the Tradition of Sacrobosco's Tracts *The Sphere*  
Institute colloquium at the Cohn Institute for History and Philosophy of Science and Ideas, University of Tel Aviv, Israel



- The Renaissance Matrix: The Roots of the Industrial Revolution in Early Modern Europe  
03/2015 Annual Meeting of the Renaissance Society of America, Berlin  
Together with Jürgen Renn
- Keynote: Ballistics and Engineers in the Early Modern Period  
03/2015 Annual Meeting of the Deutsche Physikalische Gesellschaft, Berlin
- Invited lecture: Galilei der Ingenieur  
02/2015 Wissenschaftshistorisches Seminar  
Deutsche Akademie der Naturforscher Leopoldina
- Liberty of action and imitation: how to achieve a result by any means.  
11/2014 Workshop: Technologies of Spectacles - Knowledge Transfer in Early Modern Theater  
Cultures. University of Amsterdam, Amsterdam.
- Invited lecture: Network of Knowledge and the Tradition of Sacrobosco's Tracts "The  
11/2014 Sphere"  
University of Oklahoma Libraries, University of Oklahoma, Norman (USA)
- The Spread of Greek Mechanics and Roman Culture  
09/2014 Conference: 6th International Conference of European Society for the History of  
Science, Lisbon
- Invited lecture: Network of Knowledge and the Tradition of Sacrobosco's Tracts "The  
05/2014 Sphere"  
Project: Migration of Knowledge, Minerva Center, University of Tel Aviv
- Keynote: Galileo nel telescopio  
05/2014 Celebrazioni galileiane presso Università degli Studi di Pavia
- Invited lecture: The Future of Academic Publishing  
04/2014 Max Planck Institute for the History of Science, Berlin  
Organized by Lorraine Daston
- Pneumatik: Luft und Abbildungen  
11/2013 Conference: Annual Meeting of the Excellence Cluster TOPOI, Berlin
- Invited lecture: Metallurgy, Ballistics and Epistemic Instruments. The "Nova scientia"  
09/2013 of Nicolò Tartaglia  
Dept. of History of Science, University of Oklahoma
- Keynote: L'idrostatica di Archimede nel suo contest tecnologico  
Conference: XXXII Convegno Nazionale della Società Italiana degli Storici della Fisica e  
dell'Astronomia, Siracusa, Italy
- 16th-Century Professionals and Natural Philosophers: A Debate about Nature  
01/2013 Conference: 3rd International Conference of the European Society for Early Modern  
Philosophy, Grenoble, France
- Organizer of Session: Experience as a Mechanism of Appropriation and  
Transformation of Ancient Science  
11/2012 Speakers: Joyce van Leeuwen (University of Pittsburgh), Courtney Roby (Cornell  
University), Harald Siebert (Université de Versailles), and Matteo Valleriani (MPIWG)  
Conference: Annual Meeting of the American History of Science Society, San Diego

- 12/2012  
04/2013
- Keynote: The Renaissance Engineer's Nature  
Thomas Harriot Seminar, Durham (UK)  
Institute's Colloquium, Max Planck Institute for the History of Science, Berlin
- 10/2012
- The Spread of Greek Mechanics in Hellenistic and Roman Culture  
Conference: Globalization of Knowledge in the Mediterranean World of Post-Antiquity. Mechanisms of Transfer and Transformation  
Max Planck Institute for the History of Science, Berlin
- 09/2012
- The Organ of the Garden of Tivoli  
Conference: Gardening and Knowledge. Landscape Design and the Sciences in the Early Modern Period, University of Hannover
- Galileo's Trattato della Sfera in the Context of the Tradition of Practical Astronomy  
Conference: Tintenfass und Teleskop, Villa Vigoni, Italy
- 06/2012
- Keynote Lecture: Mechanics and the Resistance of Materials  
Conference: Matters of Weight, Kunsthistorisches Institut, Florence
- 05/2012
- Title: Implementation of Water in Antiquity from the Near East to the Borders of the Roman Empire  
Conference: My Anthropocene, Haus der Kulturen der Welt, Berlin
- 01/2011  
11/2011
- Die Struktur des Praktischen Wissens. Italien. Ende des 16. Jahrhunderts / The Structure of Practical Knowledge  
Technische Universität Berlin, Research Colloquium (Prof. Friedrich Steinle) and Hungarian Academy of Science, Budapest
- 12/2010
- Keynote: Practical and Theoretical Knowledge in Early Modern Italy  
Workshop: Mathematical Life in the Dutch Republic, Lorentz Center, Leiden, The Netherlands
- 06/2010
- The Garden of Pratolino: Ancient Science on the Workbench of the Renaissance Engineer  
Conference: Fabrique et usages du jardin du XIVE au XVIIe siècle, Centre d'Études Supérieures de la Renaissance, Tours, France
- Title: Galileo Engineer  
Places:
- Invited lecture: Dept. of History of Science, Harvard University (organized by Mario Biagioli)
  - Invited lecture: Dept. of History of Science at the Georgia Institute of Technology (organized by Prof. Kristie Macrakis)
  - Annual Meeting of the German History of Science Society, Hannover (Panel organized by Ursula Klein)
  - HSS Phoenix, Arizona, USA
  - Invited lecture: Technische Universität, Dept. of History and Philosophy of Science, Berlin (Research Colloquium organized by Friedrich Steinle)
  - Invited lecture: Universität Stuttgart, Dept. for History of Science and Technology (Research Colloquium organized by Klaus Hentschel)
- 04/2009  
09/2009  
11/2009  
12/2009
- Invited lecture: Hero's Pneumatics: An Ancient Framework Tested and Approved at the Garden of Pratolino for the Development of Modern Science  
Panel organized by K. Park at the Dept. of History of Science of Harvard University
- 04/2009

- 11/2008 Invited lecture: Galileo's Cancelled Project on Acoustic Instruments at the Medici Court  
Colloquium of Dept. II organized by Lorraine Daston, MPIWG, Berlin
- 10/2008 The Garden of Pratolino: Material Translation and Transformation of Hero's Pneumatics  
Conference: SHOT, Lisboa
- Erone rinascimentale: le macchine pneumatiche di Pratolino  
Conference: La cultura delle acque dal Medioevo al Rinascimento  
Centro Leon Battista Alberti, Mantova, Italy
- 07/2008 Galileo Engineer: Exploring Galileo's Practical Knowledge  
Conference: Three Societies Meeting, Oxford, UK
- 04/2008 The War in Ariosto's Orlando Furioso: Snap-Shot of the Passage From Medieval to Early Modern Technology  
Conference: War in Words, Humboldt University of Berlin, Berlin (Germany)
- 11/2007 Invited lecture: Galileo in the Role of Caster's Assistant: The Bell of the Torre del Mangia in Siena  
Conference: Galilean Lectures. Berlin Edition 2007, Berlin
- The Transformation of Aristotle's *Mechanical Questions* by the Renaissance Italian Engineers: The Case of Question XVI  
Conference: HSS Annual Meeting, Arlington
- 04/2007 Invited lecture: Galileo, the Thermoscope and his Atomistic Conception of Heat  
Institute for History and Foundations of Science, Utrecht University
- 12/2006 Invited lecture: Galileo e l'Arsenale di Venezia  
Place: Dept. for Epistemology. University of Milan, Italy
- 12/2005 From Condensation to Compression: How Renaissance Italian Engineers Approached Hero's Pneumatics  
Conference: Übersetzung und Transformation, Humboldt-Universität, Berlin
- 09/2005 Einstein Ingegnere dell'Universo, una mostra a Berlino per celebrare l'Annus Mirabilis  
Conference: Annual Meeting of the Società Italiana di Fisica, Catania, Italy
- 06/2005 Ship as Machine. The Change of the Building Process into the Venetian Arsenal between the XVI and the XVII Centuries  
Conference: Les Machines à la Renaissance, Centre d'Études Supérieures de la Renaissance, Tours, France
- 02/2001 A View on Galileo's Ricordi Autografi. Galileo Practitioner in Padua  
Conference: Largo Campo di Filosofare, Orotawa, Tenerife
- 10/1999 Some Episodes of the Hidden History of a non-Traditional Interpretation of the Theory of General Relativity  
Conference: XVIII Congresso di Storia della Fisica e della Astronomia, Como, Italy

## **MATTEO VALLERIANI**

### **TEACHING AND SUPERVISION ACTIVITIES**

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- 2018–2019 Die Strukturen praktischen Wissens  
Technische Universität Berlin
- 2018 Das aristotelische Weltbild. Die Lektüre von Aristoteles *De coelo*  
Technische Universität Berlin
- 2017 Nachbau der ersten Personenwaage - die Materialität der frühneuzeitlichen  
statischen Medizin  
Technische Universität Berlin  
(Together with Teresa Hollerbach)
- 2017 Visual Material as Epistemic Vehicle in Science  
University of Bucharest
- 2017 Galileo Galileis *Il Saggiatore*  
Technische Universität Berlin
- 2016 Images of Early Modern Science  
Cohn Institute for the History and Philosophy of Science and Ideas. University of Tel  
Aviv, Israel
- 2016 Kodifikation und Strukturen Praktischen Wissens der Frühneuzeit  
Technische Universität Berlin
- 2015–2016 Die geozentrische Welt. Die wissenschaftliche Identität Europas zwischen  
Spätmittelalter und Früher Neuzeit  
Technische Universität Berlin
- 2015 Network and Identity. The Shared Scientific Knowledge Shaping Europe from the End  
of the Middle Ages.  
Cohn Institute for the History and Philosophy of Science and Ideas. University of Tel  
Aviv, Israel
- 2014–2015 Die Entstehung der frühneuzeitlichen Mechanik  
Technische Universität Berlin
- 2014 The Emergence of Science in the Early Modern Period  
Silverman Professorship – Advanced Seminar, Cohn Institute, University of Tel Aviv,  
Israel
- 2013–2014 Antike Hydrostatik und Pneumatik: Entstehungs- und Diffusionsprozesse, Technische  
Universität, Berlin
- 2011 Technologie und Geometrie: die frühneuzeitliche Revolution der Kriegskunst,  
Technische Universität, Berlin
- 2010–2011 Das Experiment: eine Reise in den wissenschaftlichen Salon Robert Boyles,  
Technische Universität Berlin
- 09/2010 Summer School: Museo Leonardiano, Vinci, Italy
- 2010 Galileo Galilei: die frühneuzeitliche Wissenschaft und ihr Kontext  
Technische Universität Berlin

- 2010  
Konzeptionen antiker Wissenschaft  
Technische Universität, Berlin
- 2007  
Antike Wissenschaft und technologische Entwicklung in der Literatur der frühen  
Neuzeit. Das Beispiel der Hofliteratur im 16. Jahrhundert: Ariostos Orlando Furioso,  
Humboldt Universität Berlin
- DISSERTATION
- 2018  
Dagmar Mrozik  
The Jesuit Science Network  
Prof. Dr. Volker Remmert, Prof. Dr. Matteo Valleriani  
Universität Wuppertal  
<http://jesuitscience.net>
- 2016 – TO DATE  
Teresa Hollerbach  
Quantitative Physiological Reasoning at the Turn of the Seventeenth Century: The  
Work of Sanctorius Sanctorius  
Prof. Dr. Friedrich Steinle, Prof. Dr. Matteo Valleriani  
Technische Universität Berlin
- MA THESES
- 2016  
Teresa Hollerbach  
Sanctorius Sanctorius: His work “De statica medicina”  
and its social context  
Technische Universität Berlin
- 2017  
Zvi Hasnes Beninson  
Statistical Considerations for Rethinking the Historiography of Ancient Greek  
Astronomy  
The University of Tel Aviv  
Awarded with the Funkenstein Prize
- 2018  
Sebastian Gießel  
Zur technikhistorischen Analyse von Innovationen im Schiffbau: Die Rolle der  
Verenidgen Oostindischen Compagnie (VOC) als Akteur der Technikgenese in den  
Niederlanden  
Technische Universität Berlin
- 2018 – TO DATE  
Noga Shlomi  
The *Tacuinum sanitatis*: changes in traditions of collecting, organizing and  
representing medical knowledge in the late Middle Ages  
Tel Aviv University