

# MATTEO VALLERIANI

## CURRICULUM VITAE

Max Planck Institute for the History of Science

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Born in Ferrara, Italy. June 28, 1972

Married with children

### LANGUAGES

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

### POSITION

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: Equivalent contract to Full Professorship) at the Max Planck Institute for the History of Science, Dept. I, Berlin

Coordinator of the project area "Globalization Processes of Knowledge," Dept. I, Max Planck Institute of the History of Science, Berlin

Leader of the international initiative Edition Open Sources ([www.edition-open-sources.org](http://www.edition-open-sources.org))

### PRESENT PROJECTS

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

Professional Knowledge of the Practitioners in the Early Modern Period (MPIWG)  
Working Group: The Structures of Practical Knowledge

Images in Science

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

Globalization of Knowledge

- The Aristotelianism in the world (Excellence Cluster TOPOI, Project D-5)

The Early Modern Engineer's Nature

- The relationship between art and nature from the 13th to the 16th century

Jesuits on Statics, Dynamics, Mathematics and Astronomy between Galileo and Newton (Minerva Center for Humanities in Tel Aviv and MPIWG)

Digital humanities

- 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 model in the frame of network theory for the use in History Writing

## CLOSED PROJECTS

CRC 644: Transformations of Antiquity (Humboldt University and MPIWG – Funded by the DFG)

- Reception and transformation of ancient hydromechanics
- Ancient pneumatics in the early modern garden of Pratolino

Leader of the Cross Sectional Group III, Area E, TOPOI "Technology Transfer in Antiquity"

History of Shipbuilding and Architecture (MPIWG)

- Practical knowledge at the Venetian arsenal during the Renaissance
- Development of a digital library for the history of shipbuilding

## 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*

## ACADEMIC RECORDS

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
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	Permanent Research Fellow in Dept. I at the Max Planck Institute for the History of Science in Berlin.
02/2011	Call to a chair 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.
2002–2008	PhD Student at the Max Planck Institute for the History of Science, Berlin ( <i>Disputatio</i> : Humboldt University, November 4, 2008: <i>Summa cum laude</i> )
09/2002	Summer school in the History of Science, Paris
05/2001	The 4th International Laboratory for the History of Science: <i>Art, Science and Techniques of Drafting in the Renaissance</i> (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 <i>cum laude</i> ), 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 <a href="http://public.mpiwg-berlin.mpg.de/antikythera/">http://public.mpiwg-berlin.mpg.de/antikythera/</a>

- 2007 Pratinolo – The History of Science in a Garden  
Virtual Exhibition in cooperation with the Ente Proviccia of Florence  
<http://pratinolo.mpiwg-berlin.mpg.de>
- 2006 University of Pavia (Italy), Dept. of Physics „A. Volta“  
-Website of the Division of History of Science and Technology of the IUHPS
- 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 INTERN. WORKSHOPS & CONFERENCES

- 10/2017 The Mathematics Beyond Digital Humanities  
University of Bucharest (together with Dana Jalobeanu)
- 11/2016 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 The Globalization of Knowledge in the Mediterranean World of Post-Antiquity  
With Jürgen Renn and Helge Wendt  
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 Aristotelisierung der Antike  
Max Planck Institute for the History of Science  
Berlin in collaboration with the Excellence Cluster TOPOI, Berlin
- 12/2008 The Patent System in Renaissance Italy: XV and XVI Centuries  
Max Planck Institute for the History of Science, Berlin
- 2007 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
- 2006 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 International Workshop on the History of Shipbuilding: 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)

## TEACHING

- 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

2016–to date	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
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"

## VOLUNTARY WORK

11/2013-12/2016	Chief executive of the "Verein der Freunde des Goethe Gymnasiums Berlin e.V.," Berlin, Germany
11/2012–11/2013	Member of the Executive Committee of the "Verein der Freunde des Goethe Gymnasiums Berlin e.V.," Berlin, Germany
09/2008–03/2010	Chief executive of parent-teacher association "L'Angolino," supporting organization of the Italian-German Kindergarten "L'Angolino," Ansbacher Str. 41, 10777, Berlin, Germany

## RELEVANT TALKS

10/2017	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	Renaissance Gardening and Water Management The History of Water Management, Lisbon (organized by Ana Rodrigues)
03/2017	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 Practical and Theoretical Knowledge from Medieval Forensic Anatomy to Modern Ballistics  
Series: Vielfalt der Wissensformen. Humboldt Universität zu Berlin
- 01/2017 The Sphere: Knowledge System Evolution and the Shared Scientific Identity in Europe  
Institute of Research in the Humanities, University of Bucharest
- 01/2017 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 Keynote lecture. Title: 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 Title: 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 - Title: 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 - Title: Netzwerktheorie und Geschichtsschreibung: Die Analyse der Kommentartradition der *Sphaera* von Sacrobosco in der Frühneuzeit  
Cologne Center for eHumanities, Cologne, Germany
- 05/2016 Invited Lecture - Title: 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 - Title: The Epistemology of Practical Knowledge  
Seminar of Historical Epistemology (L. Guzzardi). Dept. for Philosophy, Università degli Studi di Milano, Italy
- 04/2016 Title: 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 Title: 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

- Commentary as a Mean of Knowledge Production. Technology and the Mechanical Questions
- 02/2016 Workshop: Physico-Mathematical Knowledge on the Move: From Aristotle to Seventeenth Century Jesuits  
Minerva Humanities Center, Tel Aviv University, Israel
- 01/2016 Invited Lecture: Title: 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 Title: 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 Title: 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 - Title: Network of Knowledge and the Tradition of Sacrobosco's Tracts *de sphaera*  
Institut de recherche et d'histoire des textes, Paris
- 06/2015 Title: 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 Title: Network and Identity: The Shared Scientific Knowledge of the Tracts *De sphaera*  
Scientiae 2015, Toronto, Canada
- 04/2015 Invited Lecture - Title: 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
- 03/2015 Title: The Renaissance Matrix: The Roots of the Industrial Revolution in Early Modern Europe  
Annual Meeting of the Renaissance Society of America, Berlin  
Together with Jürgen Renn
- 03/2015 Title: Ballistics and Engineers in the Early Modern Period  
Annual Meeting of the Deutsche Physikalische Gesellschaft, Berlin  
Invited lecture
- 02/2015 Title: Galilei der Ingenieur  
Wissenschaftshistorisches Seminar  
Deutsche Akademie der Naturforscher Leopoldina
- 11/2014 Title: Liberty of action and imitation: how to achieve a result by any means.  
Workshop: Technologies of Spectacles - Knowledge Transfer in Early Modern Theater Cultures. University of Amsterdam, Amsterdam.



- 11/2014 Title: Network of Knowledge and the Tradition of Sacrobosco's Tracts "The Sphere"  
University of Oklahoma Libraries, University of Oklahoma, Norman (USA)
- 09/2014 Title: The Spread of Greek Mechanics and Roman Culture  
Conference: 6th International Conference of European Society for the History of Science, Lisbon
- 05/2014 Title: Network of Knowledge and the Tradition of Sacrobosco's Tracts "The Sphere"  
Project: Migration of Knowledge, Minerva Center, University of Tel Aviv
- 05/2014 Title: Galileo nel telescopio  
Celebrazioni galileiane presso Università degli Studi di Pavia
- 04/2014 Title: The Future of Academic Publishing  
Max Planck Institute for the History of Science, Berlin
- 11/2013 Title: Pneumatik: Luft und Abbildungen  
Conference: Annual Meeting of the Excellence Cluster TOPOI, Berlin
- 09/2013 Title: Metallurgy, Ballistics and Epistemic Instruments. The "Nova scientia" of Nicolò Tartaglia  
Dept. of History of Science, University of Oklahoma
- 01/2013 Title: L'idrostatica di Archimede nel suo contest tecnologico  
Conference: XXXII Convegno Nazionale della Società Italiana degli Storici della Fisica e dell'Astronomia, Siracusa, Italy
- 11/2012 Title: 16th-Century Professionals and Natural Philosophers: A Debate about Nature  
Conference: 3rd International Conference of the European Society for Early Modern Philosophy, Grenoble, France
- 11/2012 Organizer of Session: Experience as a Mechanism of Appropriation and Transformation of Ancient Science  
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 Keynote Lecture - Title: The Renaissance Engineer's Nature  
Thomas Harriot Seminar, Durham (UK)
- 04/2013 Institute's Colloquium, Max Planck Institute for the History of Science, Berlin
- 10/2012 Title: 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 Title: The Organ of the Garden of Tivoli  
Conference: Gardening and Knowledge. Landscape Design and the Sciences in the Early Modern Period, University of Hannover
- 06/2012 Title: 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  
Title: 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  
Title: Practical and Theoretical Knowledge in Early Modern Italy (Opening Lecture)  
Workshop: Mathematical Life in the Dutch Republic, Lorentz Center, Leiden, The Netherlands
- 06/2010  
Title: 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
- 04/2009  
09/2009  
11/2009  
12/2009  
Title: Galileo Engineer  
Places:  
- Dept. of History of Science, Harvard University (organized by Mario Biagioli)  
- 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  
- Technische Universität, Dept. of History and Philosophy of Science, Berlin (Research Colloquium organized by Friedrich Steinle)  
- Universität Stuttgart, Dept. for History of Science and Technology (Research Colloquium organized by Klaus Hentschel)
- 04/2009  
Title: 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
- 11/2008  
Title: Galileo's Cancelled Project on Acoustic Instruments at the Medici Court  
Colloquium of Dept. II organized by Lorraine Daston, MPIWG, Berlin
- 10/2008  
Title: The Garden of Pratolino: Material Translation and Transformation of Hero's Pneumatics  
Conference: SHOT, Lisboa
- 07/2008  
Title: Erone rinascimentale: le macchine pneumatiche di Pratolino  
Conference: La cultura delle acque dal Medioevo al Rinascimento  
Centro Leon Battista Alberti, Mantova, Italy
- 04/2008  
Title: Galileo Engineer: Exploring Galileo's Practical Knowledge  
Conference: Three Societies Meeting, Oxford, UK
- 04/2008  
Title: 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  
Title: Galileo in the Role of Caster's Assistant: The Bell of the Torre del Mangia in Siena  
Conference: Galilean Lectures. Berlin Edition 2007, Berlin
- 04/2007  
Title: The Transformation of Aristotle's *Mechanical Questions* by the Renaissance Italian Engineers: The Case of Question XVI  
Conference: HSS Annual Meeting, Arlington
- 04/2007  
Title: Galileo, the Thermoscope and his Atomistic Conception of Heat  
Institute for History and Foundations of Science, Utrecht University

- 12/2006  
Title: Galileo e l'Arsenale di Venezia  
Place: Dept. for Epistemology. University of Milan, Italy
- 12/2005  
Title: From Condensation to Compression: How Renaissance Italian Engineers Approached Hero's Pneumatics  
Conference: Übersetzung und Transformation, Humboldt-Universität, Berlin
- 09/2005  
Title: 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  
Title: 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  
Title: A View on Galileo's Ricordi Autografi. Galileo Practitioner in Padua  
Conference: Largo Campo di Filosofare, Orotawa, Tenerife
- 10/1999  
Title: 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

## PUBLICATION LIST

### MONOGRAPHS

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

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

### EDITED BOOKS

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

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

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

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

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

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

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.

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.

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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.

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