

Marina Baldissera Pacchetti

Priestley Building 10.10
Sustainability Research Institute (SRI)
School of Earth and Environment
University of Leeds
Leeds, United Kingdom

Email: m.baldisserapacchetti@leeds.ac.uk
Homepage: <http://www.marinabaldisserapacchetti.com>
Skype: maribp

Areas of Specialization

General Philosophy of Science, Philosophy of Climate Science, Environmental Philosophy

Areas of Competence

History of Science (esp. Early Modern), Philosophy of Physics, Logic, Ancient Philosophy

Employment

Research Fellow, Climate Information for Adaptation. June 2019–April 2021.
School of Earth and Environment, Faculty of Environment, University of Leeds, UK.

Research Assistant, American Electric Power Project. August 2018–May 2019.
Voinovich School of Leadership and Public Affairs, Ohio University, USA.

Education

PhD, History and Philosophy of Science, University of Pittsburgh, 2018
Dissertation: Spatiotemporal Scales in Scientific Modeling: Identifying Target Systems
Advisor: Prof. Robert Batterman

MSc, *First Class Honors*, History and Philosophy of Science, London School of Economics and Political Science, 2010

BSc, *First Class Honors*, Mathematics and Physics, University College London, 2009

Publications

2018. A role for spatiotemporal scales in modeling. *Studies in History and Philosophy of Science*, 67, 14–21.

Forthcoming (expected 2019). English translations of

Ehrenfest-Afanassjewa, Tatjana. (1925). Zur Axiomatisierung des zweiten Hauptsatzes der Thermodynamik. *Zeitschrift für Physik*, 33, 933–945; and

Selected parts of Ehrenfest-Afanassjewa, Tatjana. (1956). *Grundlagen der Thermodynamik*. Leiden: Brill.

In Jos Uffink, Giovanni Valente, Charlotte Werndl, & Lena Zuchowski (Eds.), *Tatjana Afanassjewa and her legacy: philosophical insights from the work of an original physicist and mathematician*. Springer.

Presentations

Peer-Reviewed

A role for spatiotemporal scales in modeling.

The 18th UK and European Conference on Foundations of Physics,
London School of Economics, UK.
July 16–18, 2016.

In what sense is uncertainty intrinsic to climate science?

British Society for the Philosophy of Science Annual Meeting,
University of Manchester, UK.
July 2–3, 2015.

In what sense is uncertainty intrinsic to climate science?

Uncertainty in Climate Science and its Impact on Decision Making,
Sorbonne-Universités (SND), University of Paris 4, France.
May 26–28, 2015.

In what sense is uncertainty intrinsic to climate science?

Algorithms and Complexity in Mathematics, Epistemology and Science,
Rotman Institute, University of Western Ontario, Canada
May 4–5, 2015.

Turning music into sound: Vincenzo Galilei's contributions to acoustics.

Biennial Meeting of the History of Science Society, Chicago, USA.
November 6–9, 2014.

Turning music into sound: Vincenzo Galilei's contributions to acoustics.

167th Meeting of the Acoustical Society of America, Providence, RI, USA.
May 5–9, 2014.

Idealization of scales of motion in atmospheric dynamics.

Second Irvine-Pittsburgh-Princeton Conference on the Mathematical and Conceptual Foundations of Physics,
Department of Logic and Philosophy of Science, University of California, Irvine, USA.
March 20–21, 2014.

Turning music into sound: Vincenzo Galilei's contributions to the science of music.

Galileo: Science, Faith and the Arts,
St. Michael's College, University of Toronto, Canada.
October 3–4, 2013.

Invited

Epistemic pluralism in public policy.

MPA 5850: Policy Analysis for Public Affairs and Leadership.
Voinovich School of Leadership and Public Affairs, Ohio University, USA.
February 11, 2019.

Teaching Experience

At the University of Pittsburgh

As Independent Instructor

Magic, Medicine and Science (Introductory undergraduate course on the history of science from Ancient Greek philosophy and science to the Early Modern period), Spring 2017.

Myth and Science (Introductory undergraduate course on the history of Ancient Greek philosophy and science), Fall 2016.

Principles of Scientific Reasoning (Introductory undergraduate course on critical thinking), Spring 2015.

As Teaching Assistant

Magic, Medicine and Science, with Prof. Peter Machamer, Spring 2013.

The Nature of Emotions, with Prof. James Lennox, Fall 2012.

Professional Development

Utrecht Summer School on Physics of the Atmosphere at the Institute for Marine and Atmospheric Research. Utrecht, Netherlands. August 18–29, 2014.

Research Methods Workshop for Early-Career Graduate Students on Music and Travel, 1500-1700. The Newberry Library, Chicago, USA. March 7, 2014.

Vienna International Summer School / Scientific World Conception, Session on “Climate Studies”. Vienna, Austria. July 1–14, 2013.

Grants and Awards

Newberry Renaissance Consortium Grant, 2014.

Travel Grant to attend Second IPP conference at UC Irvine, 2014.

Wesley C. Salmon Research Fund, 2014.

Travel Grant for the Philosophy of Logic, Math and Physics Graduate conference and Metaphysics within and without Physics, University of Western Ontario, 2014.

NSF Travel grant for HSS, Chicago, 2014.

Teaching award for excellent student reviews for the course “Magic, Medicine and Science”, Department of History and Philosophy of Science, 2013.

Service to the Profession

Reviewer for *Philosophy of Science*

Co-organizer with Dr. Giovanni Valente, Workshop on Climate Models and Public Policy, Department of Philosophy, University of Pittsburgh. February 28, 2015.

Co-organizer with Elay Shech and Dr. Giovanni Valente, Workshop on Climate Models and Uncertainty, Center for History and Philosophy of Science, University of Pittsburgh. February 26, 2015.

Media Contributions

Nature Podcast: Music and the making of science, Published March 12th 2015
<http://www.nature.com/nature/podcast/index-audiofile-2015-03-12.html>

Language Competence

Italian (native), English (fluent), German (fluent), Spanish (conversational), French (novice), Latin.

References

Robert Batterman

Professor of Philosophy, University of Pittsburgh

1025 Cathedral of Learning
University of Pittsburgh
Pittsburgh, PA 15260
rbatterm@pitt.edu
<http://www.pitt.edu/~rbatterm>

James F. Woodward

Distinguished Professor of History and Philosophy of Science, University of Pittsburgh

1109C Cathedral of Learning
University of Pittsburgh
Pittsburgh, PA 15260
jfw@pitt.edu
<http://www.jameswoodward.org>

Glenn Matlack

Associate Professor of Environmental and Plant Biology, Ohio University

405 Porter Hall
Ohio University
Athens, OH, 45701
matlack@ohio.edu
<https://www.ohio.edu/cas/plantbio/contact/profiles.cfm?profile=matlack>

Erik Curiel

Assistant Professor of Philosophy, Munich Center for Mathematical Philosophy

Fakultät für Philosophie, Wissenschaftstheorie und Religionswissenschaft
Ludwig-Maximilians-Universität
Ludwigstrasse 31
80539 München, Deutschland
Erik.Curiel@lrz.uni-muenchen.de
<http://strangebeautiful.com>

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