

# Marina Baldissera Pacchetti

Priestley Building 10.10  
Sustainability Research Institute (SRI)  
School of Earth and Environment  
University of Leeds  
LS2 9JT, Leeds, United Kingdom

Email: [m.baldisserapacchetti@leeds.ac.uk](mailto:m.baldisserapacchetti@leeds.ac.uk)  
Homepage: <http://www.marinabaldisserapacchetti.com>  
Skype: maribp

## Employment

Research Fellow, Climate Information for Adaptation. June 2019–October 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*.  
Committee: Robert Batterman (director), James F. Woodward, Mark Wilson, Sandra D. Mitchell,  
Charlotte Werndl (external).

MSc, History and Philosophy of Science, London School of Economics and Political Science, 2010.  
Passed with *Distinction*.

BSc, Mathematics and Physics, University College London, 2009. Passed with *First Class Honours*.

## Areas of Specialization

General Philosophy of Science, Philosophy of Climate Science

## Areas of Competence

History of Science (esp. Early Modern), Philosophy of Physics, Logic, Ancient Philosophy, Environmental  
Philosophy, Climate Change Adaptation

## Publications

### Journal Articles

Forthcoming. **Baldissera Pacchetti, M.** Structural uncertainty through the lens of model building. *Synthese*.

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

## White Papers

2019. Michaud, G., Zimmer, M., Khalaf, C., Allwine, D., Pitt, D., Trainer, M., Kloepfer, J., **Baldissera Pacchetti, M.**, Westover, K., Riley, J., Hall-Jones, C., Cordetti, A., & Ewart, M. *Evaluating the economic benefits of solar energy deployment in Southeastern Ohio*. Prepared for American Electric Power (AEP) Ohio.

## Translations

Forthcoming. **Baldissera Pacchetti, M.** 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.

## Papers in preparation

An interdisciplinary paper developing a framework for assessing quality of information for adaptation. (currently being revised for publication at the *Bulletin of the American Meteorological Society* – with Suraje Dessai, Seamus Bradley, and David A. Stainforth)

A historical paper on the contributions of Vincenzo Galilei (1520–1591) and Girolamo Mei (1519–1594) to the development of a physical explanation of consonance in acoustics. (under review)

A philosophical paper on the role of uncertainty on the trust relationship between policy makers and scientists in the context of climate adaptation. (in preparation for submission)

An interdisciplinary paper that tests the framework for assessing the quality of information for adaptation. (in preparation for submission – with Suraje Dessai, Seamus Bradley, and David A. Stainforth)

## Presentations

### Peer-Reviewed

Revisiting the distinction between predictions and projections.

Biennial Meeting of the Society for the Philosophy of Science in Practice (SPSP),  
Michigan State University (MSU) in East Lansing, Michigan, USA.  
July 7-10, 2020. Cancelled due to COVID-19

Assessing the epistemic quality of climate information for adaptation.

Consortium for Socially Relevant Philosophy of/in Science and Engineering (SRPoiSE),  
Michigan State University (MSU) in East Lansing, Michigan, USA.  
July 7-10, 2020. Postponed by a year due to COVID-19

The International Conference on Climate Services,  
Indian Institute of Tropical Meteorology, Pune, India.  
February 11–13, 2020.

Studying the Climate: A Challenge of Complexity,  
Institute of Physics, London, UK.  
February 6, 2020.

Trust and values at the science-policy interface.

The 2019 Annual Meeting of the Society for Decision Making under Deep Uncertainty,  
Delft University of Technology, Netherlands.  
November 5–7, 2019.

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.

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

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

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 acoustics.

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

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

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

## Invited

Structural uncertainty through the lens of model building.

Department of Geography,  
University of Bergen, Bergen, Norway.  
May 28, 2020.

Department of Philosophy,  
George Mason University, Fairfax, VA, USA.  
February 20, 2020.

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.

Structural uncertainty: target system identification

Philosophy Department,  
Virginia Polytechnic Institute and State University, Blacksburg, USA.  
February 12, 2018.

## Teaching Experience

### At the University of Leeds

As Independent Instructor

Section on Climate Change Adaptation for SOEE5550M Climate Change: Impacts and Adaptation, Spring 2020.

Lecture on Scientific Uncertainty for SOEE3112 Environmental Risk: Science, Policy and Management, Fall 2019.

### 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.

## Service to the Profession

Guest Associate Editor in Climate Risk Management, *Frontiers in Climate*, with Scott Bremer, Marta Bruno Soares, Arjan Wardekker and Jeroen Van Der Sluijs, Research Topic on “High-Quality Knowledge for Climate Adaptation: Revisiting Criteria of Credibility, Legitimacy, Salience, and Usability”.

Reviewer for *Philosophy of Science*, *Solar Energy*.

Reviewer for *Intergovernmental Panel on Climate Change, Working Group II, First Order Draft and Working Group I, Second Order Draft of AR6*.

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

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

## Professional Development

Autumn School on Co-Producing Climate Adaptation Research. Center for the Study of the Sciences and the Humanities, University of Bergen. Bergen, Norway. October 20–25, 2019.

Workshop on Teaching and Learning in Philosophy with a Special Emphasis on Inclusive Pedagogy. University of Pittsburgh. Pittsburgh, USA. February 4, 2017.

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 Conceptions, 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.

## Media Contributions

Nature Podcast: Music and the making of science, Published March 12, 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 (intermediate).

Last updated: June 26, 2020