

Oliver Buchholz

CONTACT INFORMATION

ADDRESS AI Research Building, Maria-von-Linden-Straße 6, 72076 Tübingen, Germany

EMAIL oliver.buchholz@uni-tuebingen.de

WEBSITE oliverbuchholz.github.io

RESEARCH INTERESTS

AOS Philosophy of Science, Philosophy of Machine Learning

EDUCATION

NOV 2020 – Present Ph. D. in PHILOSOPHY
University of Tübingen, Germany
Advisors: Prof. Dr. Wolfgang Spohn and Dr. Eric Raidl

OCT 2018 – OCT 2020 M. A. in PHILOSOPHY
University of Tübingen, Germany
Thesis: “Artificial Neural Networks and the Reference Class Problem”
Advisor: Jun.-Prof. Dr. Alexandra Zinke

OCT 2018 – OCT 2020 M. Sc. in ECONOMICS AND FINANCE
University of Tübingen, Germany
Thesis: “Uncertainty and the Business Cycle”
Advisor: Prof. Dr. Thomas Dimpfl

OCT 2016 – AUG 2017 B. Sc. in MATHEMATICS (non degree-seeking)
University of Stuttgart, Germany
Undergraduate coursework in analysis, linear algebra, numerics and stochastics

OCT 2012 – JUL 2016 B. Sc. in ECONOMICS AND BUSINESS ADMINISTRATION
University of Hohenheim, Stuttgart, Germany
Thesis: “Forecasting Emergency Patient Arrival Counts”
Advisor: Prof. Dr. Robert Jung

ACADEMIC POSITIONS

NOV 2020 – Present RESEARCH ASSISTANT, Cluster of Excellence “Machine Learning: New Perspectives for Science”, University of Tübingen

OCT 2021 – FEB 2022 TEMPORARY LECTURER (Lehrbeauftragter), University of Stuttgart

OCT 2018 – SEP 2021
and
OCT 2012 – AUG 2017 RESEARCH ASSISTANT, Chair of Procurement and Production,
University of Hohenheim

OCT 2016 – AUG 2017 STUDENT ASSISTANT, Chair of Econometrics and Statistics,
University of Hohenheim

AWARDS AND SCHOLARSHIPS

- Nov 2012 – Oct 2020 Scholar of the German National Academic Foundation (*Studienstiftung des deutschen Volkes*)
- Oct 2015 Admission to the Dean’s List of the Faculty for Economics and Social Sciences at the University of Hohenheim for grades among the best 3 % of the faculty’s students

GRANTS

- Oct 2022 Funding by the Cluster of Excellence “Machine Learning: New Perspectives for Science” for the Graduate Workshop on Philosophy of Machine Learning (EUR 2.000).
- Nov 2021 Fellowship to attend the ACM International Conference on AI in Finance (USD 100).

TALKS

12. “The Curve-Fitting Problem Revisited”, 4th International Conference of the German Society for Philosophy of Science, Berlin, August 2022.*
11. “Building Effective Guidelines for Machine Learning: Lessons from Means-End Epistemology”, conference “Philosophy of Data Science: Data Science Governance”, Frankfurt a. M., June 2022.*
10. “XAI: On Explainability and the Obligation to Explain” (with K. Reinhardt), workshop “Issues in XAI #4: Explainable AI: Between Ethics and Epistemology”, Delft, May 2022.*
9. “The Curve-Fitting Problem Revisited”, conference “Formal Methods and Science in Philosophy IV”, Dubrovnik, April 2022.*
8. “A Means-End Account of Explainable Artificial Intelligence”, conference “Philosophy in Informatics VI”, virtual, December 2021.*
7. “A Means-End Account of Explainable Artificial Intelligence”, workshop “Philosophy of Science Meets Machine Learning”, Tübingen, November 2021.
6. “Building Effective Guidelines for XAI: Lessons from Philosophy”, workshop on Explainable AI in Finance at the 2nd ACM International Conference on AI in Finance, virtual, November 2021.*
5. “The Deep Neural Network Approach to the Reference Class Problem”, workshop “Philosophy of Science in the Light of AI”, virtual, October 2021.*
4. “A Means-End Account of Explainable Artificial Intelligence”, 4th Conference on “Philosophy and Theory of Artificial Intelligence”, Gothenburg, September 2021.*
3. “A Falsificationist Account of Artificial Neural Networks” (with E. Raidl), Congress of the Society for the Philosophy of Science, Mons, September 2021 (not held due to Covid-19).*
2. “A Falsificationist Account of Artificial Neural Networks”, CEPE/IACAP joint conference, virtual, July 2021.*
1. “A Falsificationist Account of Artificial Neural Networks”, Philosophy of Science & Methodology Colloquium, Tübingen, June 2021.

* peer-reviewed

REVIEWING ACTIVITIES

CONFERENCES *Philosophy and Theory of Artificial Intelligence*

CONFERENCE AND WORKSHOP ORGANIZATION

OCT 2022 Graduate Workshop on Philosophy of Machine Learning (with S. Blanco), University of Tübingen.

TEACHING

WINTER 2021/22 “Philosophische Aspekte des maschinellen Lernens”, undergraduate seminar (in German), University of Stuttgart.