

Oliver Buchholz

CONTACT INFORMATION

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

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

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

- NOV 2021 Fellowship to attend the ACM International Conference on AI in Finance (USD 100)

TALKS

- AUG 2022 "The Curve-Fitting Problem Revisited", 4th International Conference of the German Society for Philosophy of Science, Berlin.*
- DEC 2021 "A Means-End Account of Explainable Artificial Intelligence", conference on Philosophy in Informatics VI, virtual.*
- NOV 2021 "A Means-End Account of Explainable Artificial Intelligence", workshop "Philosophy of Science Meets Machine Learning", Tübingen.
- OCT 2021 "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.*
- OCT 2021 "The Deep Neural Network Approach to the Reference Class Problem", workshop "Philosophy of Science in the Light of AI", virtual.*
- SEP 2021 "A Means-End Account of Explainable Artificial Intelligence", 4th Conference on "Philosophy and Theory of Artificial Intelligence", Gothenburg.*
- SEP 2021 "A Falsificationist Account of Artificial Neural Networks" (with E. Raidl), Congress of the Society for the Philosophy of Science, Mons (not held due to Covid-19).*
- JUL 2021 "A Falsificationist Account of Artificial Neural Networks", CEPE/IACAP joint conference, virtual.*
- JUN 2021 "A Falsificationist Account of Artificial Neural Networks", Philosophy of Science & Methodology Colloquium, Tübingen.

* conference/workshop with peer-review

REVIEWING ACTIVITIES

- CONFERENCES *Philosophy and Theory of Artificial Intelligence*

TEACHING

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