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 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

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

Talks

10. "The Curve-Fitting Problem Revisited", 4th International Conference of the German Society for Philosophy of Science, Berlin, August 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*

Teaching

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

last updated: January 31, 2022