

Andreas Haupt | Curriculum Vitæ

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Academic

Massachusetts Institute of Technology

Cambridge, USA

Interdisciplinary Ph.D. in Social and Engineering Systems, GPA 5.0/5.0

2019-2024

Specialization: Artificial Intelligence, Industrial Organization, Microeconomic Theory

Thesis Working Title: Design Economics for Artificial Intelligence

Co-Advisors: Alessandro Bonatti, Dylan Hadfield-Menell.

Goethe-Universität

Frankfurt, Germany

B.Sc. in Computer Science

2019

Rheinische Friedrich-Wilhelms Universität

Bonn, Germany

M.Sc. in Economics (with distinction), M.Sc. in Mathematica, B.Sc. in Mathematics

2018

Relevant Coursework: Design for Democratic Discourse (Jonathan Zittrain, Harvard Law School), Economics of Information and Technology (Erik Brynjolfsson, MIT Sloan), Industrial Organization (Glenn Ellison, MIT), Market Design (Parag Pathak, MIT), Simplicity and Complexity in Economics (Mohammad Akbarpour, Stanford Graduate School of Business), Causal Machine Learning (Victor Chernozhukov, MIT)

Fellowships: Villigst Merit Scholar 2012-17 (full scholarship), Presidential Fellow 2019-20 (full fellowship), MIT, Social and Ethical Responsibilities Scholarship 2022, MIT.

Group Memberships: Harvard Center for Rebooting Social Media, Student Member, American Economic Association, Student Member, Econometric Society, Student Member, Association for Computing Machinery, Student Member.

Presentations: Harvard EconCS (3x), Stanford Computer Science meets Game Theory.

Tutorials: ACM Fairness, Accountability and Transparency 2021.

Professional Experiences

European Commission, Directorate General for Competition

Brussels, Belgium

Postgraduate Visitor in Unit C.6: Data Markets and Ecommerce

Spring 2021

- Conducted research and drafted for Voice Assistants Sector Inquiry report
- Analyzed data and techno-economic arguments in the Amazon submission for the European Commission's case against Amazon regarding Amazon Marketplace's data use

German National Parliament

Berlin, Germany

Research Assistant, [marian-wendt.de](https://www.marian-wendt.de)

Spring 2017

- Drafted policy briefs on digital and homeland policy issues to support committee work (digital, NSA)

MITx Micromasters in Statistics and Data Science

Cambridge, MA

Teaching Fellow, openlearning.mit.edu

Spring 2021

- Created content and answered questions on the forum for the course "Machine Learning with Python"
- Facilitated 14 sessions of 135min live recitations for learners from Uruguay

Teach First Deutschland

Groß-Gerau, Germany

Fellow/Associate Teacher at Professional School Groß-Gerau, [teachfirst.de](https://www.teachfirst.de)

2017-2019

- Taught 20h/week in mathematics, German and CS and coached students on their goals for vocational education

Service

Policy Advisor: Expert for the rapporteur on the European Union Artificial Intelligence Act proposal 2022

Chair: MIT AI Ethics Graduate Group 2021-22, MIT Graduate Student Council Sustainability Committee 2020-21; Harvard-MIT Student Group on Economics and Computation

Organizer: MIT AI Policy Forum Session on the EU digital policy packages

Referee: MIT Electrical Engineering and Computer Science PhD Admissions 2022, Program Committee ACM Fairness, Accountability and Transparency 2022, Program Committee International Conference on Machine Learning 2022

Certificates

Machine Learning: Deep Learning (Andrew Ng), Probabilistic Graphical Models I (Stanford, Daphne Koller)

Teaching and Management: Kaufman Teaching Certificate (MIT), Project Management Foundations (DGP)

Publications

Andreas* Haupt and Vaikkunth* Mugunthan (2021). "Prior-Independent Auctions for the Demand Side of Federated Learning". In: *ICLR Workshop on Distributed, Private Machine Learning*.

Andreas Haupt*, Dirk Bergemann*, et al. (2021). "The Optimality of Add-On Pricing". In: Conference on Web and Internet Economics 2021.

Andreas Haupt*, Mohammad Khatami, et al. (2020). "Classification on Large Networks: A Quantitative Bound via Motifs, Graphons". In: *Proceedings of the AWM Research Symposium 22*.

Working Papers and Works In Preparation

Philip Christophersen*, Andreas Haupt*, and Dylan Hadfield-Menell (2022). "Getting it in Writing: Formal Contracting Solves Social Dilemmas in Multi-Agent Reinforcement Learning". Upon Request.

Mihaela Curmei* et al. (2021). "Psychological Models of User Preferences in Recommender Systems". Arxiv.

Andreas Haupt* and Dylan Hadfield-Menell (2021). "Staying on the Right Side of Recommender Systems: Equity and Externalities in Strategic Collaborative Filtering". Upon request.

Andreas Haupt* and Zoë Hitzig* (2021). "Contextually Private Implementation". Arxiv 2112.10812.

Andreas Haupt* and Aroon Narayanan* (2022). "Cautious Algorithms". Upon Request.

Andreas Haupt* and Praneeth Vepakomma* (2022). "Federated Learning with Privacy Preferences". Upon Request.