Andreas Haupt | Curriculum Vitæ

✉ haupt@mit.edu • 🌐 indraos.github.io • **in** indraos • ○ indraos

Work Authorization: EU Citizen, in the U.S. with an F-1 Visa, Curricular Practical Training available.

Academic

Massachusetts Institute of Technology — Cambridge, USA

Interdisciplinary Doctor of Philosophy, GPA 5.0/5.0 — 2019-2023
Computer Science and Artificial Intelligence Laboratory; Applied Economics Group
Fields: Industrial Organization, Microeconomics, Online and Reinforcement Learning
Thesis Title: The Economic Context of Algorithms
Co-Advisors: Dylan Hadfield-Menell, Alessandro Bonatti

Goethe-Universität — Frankfurt, Germany

B.Sc. in Computer Science (Bayesian Machine Learning) — 2019

Rheinische Friedrich-Wilhelms Universität — Bonn, Germany

M.Sc. in Economics, M.Sc. in Mathematics, B.Sc. in Mathematics — 2018
Fields: Microeconomic Theory (in Economics); Combinatorics and Stochastics (in Mathematics)

Selected Coursework: Machine Learning (Tommi Jaakola, MIT CS), Causality (Victor Chernozhoukov, MIT Economics), Algorithmic Game Theory (Konstantinos Daskalakis, MIT CS), Design for Democratic Discourse (Jonathan Zittrain, Harvard Law School), Solving Tech's Social Dilemmas (Ash Carter, Harvard Kennedy School), Economics of Information and Technology (Erik Brynjolfsson, MIT Sloan), Industrial Organization (Glenn Ellison, MIT Economics), Market Design (Parag Pathak, MIT Economics), Simplicity and Complexity in Economics (Mohammad Akbarpour, Stanford Graduate School of Business),

Fellowships: Villigst Merit Scholar 2012-17 (full scholarship), Presidential Fellow 2019-20 (full fellowship), MIT, Social and Ethical Responsibilities Scholarship 2022-23, MIT.

Presentations: EconCS (3x) (Harvard), Computer Science meets Game Theory (Stanford), ILIAD (Stanford), EconCS (Northwestern), Workshop on Algorithms, Learning and Economics (Naxos)

Tutorials: ACM Fairness, Accountability and Transparency 2021.

Professional Experiences

European Commission, Directorate General for Competition — Brussels, Belgium

Trainee in Unit C.6: Data Markets and Ecommerce — Spring 2021
- Conducted research, analyzed data 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 practices

German National Parliament — Berlin, Germany

Research Assistant, marian-wendt.de — Spring 2017
- Drafted policy briefs on digital and homeland policy issues to support commitee 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 — 2017-2019
- Taught 20h/week in mathematics, German and CS and coached students on their goals for vocational education

Service

Expert: For the European Parliament Rapporteur for the Artificial Intelligence Act proposal 2022

Organizer: MIT AI Policy Forum Session on the EU digital policy packages, 2020 Internet Policy Challenge Director at MIT Policy Hackathon (Ooni and Harvard Berkman-Klein); Data Science for a Social Good Germany Challenge ("Start with a Friend"), 2017 Merit Foundation Workshop at Max Planck Institute for Intelligent Systems; 2017 Delegation to the National Model United Nations in New York; 2018-2019 Delegation to the francophone simulation of the European Parliament "SPECQUE" in Montréal resp. Bordeaux/Toulouse.

Leadership: MIT Science Policy Initiative Vice-President 2022-23; MIT AI Ethics Chair 2021-23; MIT Graduate Student Council Sustainability Chair 2020-21; Harvard-MIT Student Group on Economics and Computer Science Chair 2021-23

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, Reviewer for ACM Equity and Access in Algorithms, Mechanisms, and Optimization

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)

Selected Publications

Mihaela Curmei*, Andreas Haupt*, Dylan Hadfield-Menell, and Benjamin Recht (2022). "Towards Psychologically-Informed User Models in Recommendation Systems". In: *Proceedings for the 16th ACM Conference on Recommender Systems*.

Andreas Haupt*, Dirk Bergemann*, Alessandro Bonatti*, and Alex Smolin* (2021). "The Optimality of Add-On Pricing". In: Proceedings of the 17th Conference on Web and Internet Economics.

Andreas Haupt* and Zoë Hitzig* (2022). "Contextually Private Mechanisms". In: Proceedings for the 23rd ACM Conference on Economics and Computation.

Selected Works in Progress

Alessandro Bonatti* and Andreas Haupt* (n.d.). "The Computational Foundations of Algorithmic Collusion".

Olivia Hartzell* and Andreas Haupt* (n.d.[a]). "Algorithmic Collusion Behind the Amazon Buy Box".

– (n.d.[b]). "Regulating Algorithmic Collusion Via Continuity of Value Functions".

Andreas Haupt*, Chara Podimata, and Dylan Hadfield-Menell (n.d.). "Active User Content Curation and its Consequences for Recommendation Systems".