Andreas Haupt | Curriculum Vitæ

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*Andy often proposes things that sounds very dumb,
and then turn out to be fun.*

Academic

Massachusetts Institute of Technology	**Cambridge, USA**
PhD in Social and Engineering Systems, MIT GPA 5.0	*current*

Specialization: Artificial Intelligence and Decision-Making, Design Economics
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*

Specialization: Probabilistic Graphical Models, Machine Learning
Thesis: Multi-Agent Influence Diagrams and Commitment
Thesis Supervisor: Nils Bertschinger

Rheinische Friedrich-Wilhelms Universität	**Bonn, Germany**
M.Sc. in Economics (with distinction), German GPA 1.2	*2018*

Specialization: Mechanism Design
Thesis: Voting with Limited Communication
Thesis Supervisor: Benny Moldovanu

Rheinische Friedrich-Wilhelms Universität	**Bonn, Germany**
M.Sc. in Mathematics, German GPA 1.2	*2017*

Specialization: Random Graphs
Thesis: A Data Application of Graphon Theory
Thesis Supervisor: Ngoc Mai Tran

Rheinische Friedrich-Wilhelms Universität	**Bonn, Germany**
B.Sc. in Mathematics	*2014*

Relevant Coursework: Experiential Ethics, Machine Learning, Economics of Information and Technology, Market Design, Simplicity and Complexity in Economics, Industrial Organization, Causal Machine Learning, Decision-Making under Uncertainty

Fellowships: Ev. Studienwerk Full Merit Scholarship 2012-17, MIT Presidential Fellowship 2019-20

Experiences

Policy

European Commission, Directorate General for Competition	**Brussels, Belgium**
Postgraduate Visitor in Unit C.6: Data Markets and Ecommerce	*Spring 2021*

○ Technology Policy and Digital Economic research for the Digital Markets Act Proposal
○ Data Analysis of contributions in the Commission's case on data use by Amazon marketplace

Office of a Member of German National Parliament	**Berlin, Germany**
Research Assistant in the office of Marian Wendt, marian-wendt.de	*Spring 2017*

○ Researched and wrote summaries on digital and homeland policy issues to support commitee work (digital, NSA)
○ Built a web scraper for the download of relevant legislation, saving 20min/week for the other members of the office

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"
- Facilitating 135min/week live recitations for learners from Uruguay
- Created reusable course content for 5 recitations

Teach First Deutschland   **Groß-Gerau, Germany**
Fellow/Associate Teacher at Professional School Groß-Gerau, teachfirst.de   *2017-2019*
- Taught 20 lessons/week in mathematics, German and CS and coached students on their goals for vocational education
- Spoke on digital education in a state teacher training center, 3x in a media agency and for adult education professionals
- Some educational material generated for projects is here

Service

Organizer: 2020 Internet Policy Challenge Director at MIT Policy Hackathon, with a challenge sponsored by Ooni and the Berkman-Klein Center; 2017 Merit Foundation Workshop "Machine Learning" at the MPI for Intelligent Systems with focus Fair Representations

Chair: MIT AI Ethics Graduate Group 2021-22, MIT Graduate Student Council Sustainability 2020-21

Editor: Bonn Journal of Economics 2016/17

Service: MIT EECS PhD Admissions 2022, ACM FAccT 2022, ACM EC '20 Digital Volunteer with Y. Gonczarowski, MIT Application Assistance Program

Certificates

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

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

Publications

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

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

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

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

Presentations

ACM FAccT 2021 Tutorial "Data Externalities" (Video), Beacon Hill Seminar Series, MIT Internet Policy Research Initiative, Harvard EconCS