

# Andreas Haupt | Curriculum Vitæ

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## Academic

### Massachusetts Institute of Technology

Cambridge, USA

*PhD in Social and Engineering Systems*

*current*

Specialization: Artificial Intelligence, Information Design

Thesis Title: Mechanism Design for Algorithmic Services

Co-Advisors: Alessandro Bonatti, Dylan Hadfield-Menell, Alex Pentland

### 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)*

*2018*

Specialization: Mechanism Design

Thesis: Voting with Limited Communication

Thesis Supervisor: Benny Moldovanu

### Rheinische Friedrich-Wilhelms Universität

Bonn, Germany

*M.Sc. in Mathematics*

*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:** Market Design, Machine Learning, Economics of Information and Technology, Complexity in Economics, Combinatorial Optimization, Combinatorial Stochastic Processes, Industrial Organization

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

## Work Experience

### Policy

#### European Commission, Directorate General for Competition

Brussels, Belgium

*Trainee 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 committee work (digital, NSA)
- Built a web scraper for the download of relevant legislation, saving 20min/week for the other members of the office

### Teaching

#### 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

## Teach First Deutschland

Fellow at Berufliche Schulen Groß-Gerau, [teachfirst.de](http://teachfirst.de)

Groß-Gerau, Germany

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.....

**Chair:** MIT Graduate Student Council Sustainability 2020-2021

**Referee:** ICLR 2020 Workshop AI for Public Health

**Volunteer:** ACM EC '20 Digital Volunteer with Y. Gonczarowski, MIT Application Assistance Program

**Editor:** Bonn Journal of Economics 2016/17

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

## Skills

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**Machine Learning:** Deep Learning (Andrew Ng), Advanced Tensorflow (Google Brain, Andrew Ng)

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

## Publications

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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

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