

Andreas Haupt

Curriculum Vitæ

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Education

- 10/15-08/18 **M.Sc. Economics (excellent)**, *University of Bonn*, GPA 3.74.
Concentrations Microeconomics, Mechanism Design
Thesis "Voting with Restricted Communication"
Supervisor Dr. rer. pol. Benny Moldovanu
- 10/15-06/17 **M.Sc. Mathematics**, *University of Bonn*, GPA 3.79.
Concentrations Discrete Random Structures, Approximation Algorithms
Thesis "A data Application of Graphon Theory"
Supervisor Ngoc Mai Tran, PhD
- 10/12-07/15 **B.Sc. Mathematics**, *University of Bonn*.
Concentration Discrete and Combinatorial Optimisation

Professional Experiences

Professional

- 08/17-06/19 **Teach First Deutschland Fellow**, *Vocational School, Groß-Gerau*.
Courses taught Mathematics, CS essentials (scratch, MIT AppInventor), Arduino
Training Project management, instruction design, diversity, digital education
- 02/17-03/17 **Intern Scientific Assistance**, *Member of German Parliament M. Wendt*, Berlin.
◦ Conduct research on policy questions for homeland and digital policy matters
◦ Build a web scraper that saves 20min of download work each week

Academic

- 02/17-10/17 **Research Assistant**, *Chair of Stochastic Analysis, University of Bonn*.
◦ \LaTeX and proof-read 2 research articles
◦ Unify templates for several lecture notes (1200+ pages)
- 07/15-08/15 **Research Assistant**, *Chair of Discrete Optimisation, EPFL*, Lausanne.
finish research semester project on maximisation of max-sum diversification.

Honors

- 03/13-07/17 **Full scholarship**, *Evangelisches Studienwerk*, Schwerte, 1:100-competitive.
Evangelisches Studienwerk is one of 13 foundations giving academic state scholarships.
- 08/18-11/18 **Infrastructure Grant (€2000)**, *State of Hesse*, Wiesbaden.
Install an Arduino Lab at Vocational School Groß-Gerau
- 10/2018 Win 2nd prize (€1500) at Data Hackathon for NLP news relevance classification

Projects

- 11/18-06/19 **Data Ambassador**, *Data Science for A Social Good*, Berlin, dssg-berlin.org.
 - Improve and automatise refugee-citizen matching algorithm for NGO “Start with a Friend”
- 10/17-06/19 **Scrum Master**, *Bildungsfestival*, Essen, bildungsfestival.org.
 - Introduce SCRUM to 20+ volunteer organisation for 100+ student networking event
- 01/18-06/19 **Strategy**, *REDE.online*, Frankfurt, re-de.online.
 - Create moderation concept and mockups for regional data/chat app
- 02/17-11/17 **Organiser**, *MLworkshopVilligst*, Tübingen, mlworkshopvilligst.wordpress.com.
 - Organise machine learning workshop with 4 speakers from MPI-IS, 1 from Columbia
 - Help participants find a topic for 12 contributed talks and write blog entries
- 02/16-02/17 **Editor**, *Bonn Journal of Economics*, Bonn, bje.uni-bonn.de.
 - Select 8 extended abstracts to appear in student journal
 - Create new \LaTeX template still in use now

Presentations

- 04/18 **“Random Structures in Neuroscience and Biology”**, *LMU*, Munich.
- 01/19 **Pedagogic Day**, *Study seminar for teacher candidates*, Darmstadt.
 - Give workshop on learning videos in the classroom to Teacher candidate supervisors.
- 04/19 **“Digital Participation Tools”**, *Sustainability Education Agency*, Recklinghausen.
 - Present the use of online tools for seminar conception (Plickers, Polleverywhere + 5)
- 04/18 —, *Ev. Akademie Villigst*, Schwerte.
- 10/17 **“Intelligent Robots – Simulation of Life?”**, *Ev. Akademie Villigst*, Schwerte.
 - Give introduction to supervised learning and collaborative filtering for general audience

Skills

Tools pandas • sklearn • keras • C++ • SQL • git • \LaTeX • Jekyll • Sketch • Adobe CS
Languages German, English, French

Certifications

- Coursera Machine Learning (A. Ng, 09/17, 100%), Deep Learning Specialisation (A. Ng, 10/17-02/18, 100%), Neural Networks for Machine Learning (G. Hinton, 06/18, 99%), Probabilistic Graphical Models: Representation (02/18, 96%)
- Fobizz App Development in Class • Teaching Programming using Scratch • Twitter Simply (German) Explained • Learning Videos in Class • Using Greenscreen in Class

Publications

- A. Haupt. Communication-restricted voting. *Bonn Journal of Economics*, 2019.
- A. Haupt, M. Khatami, T. Schultz, and N. Tran. Classification on large networks: A quantitative bound via motifs and graphons. *arXiv preprint 1710.08878*, 2017.