Andreas Haupt

Curriculum Vitæ

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▬▬▬ Education

10/17-07/19	**B.Sc. Computer Science**, *University of Frankfurt*.
	Concentration Probabilistic Inference, Decision Science
10/15-08/18	**M.Sc. Economics (excellent)**, *University of Bonn*, GPA 3.74.
	Concentrations 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, Combinatorial Optimisation
	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*.
07/15-08/15	**Research Assistant**, *Chair of Discrete Optimisation, EPFL*, Lausanne.
	finish research semester project on maximisation of max-sum diversification.

▬▬▬ Honours

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 automise 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
02/17-11/17	**Organiser**, *MLworkshopVilligst*, Tübingen, mlworkshopvilligst.wordpress.com.
	○ Organise machine learning workshop with 4 speakers from MPI-IS, 1 from Columbia
02/16-02/17	**Editor**, *Bonn Journal of Economics*, Bonn, bje.uni-bonn.de.
	○ Create new LaTeX template still in use now

Presentations

04/18	**"Random Structures in Neuroscience and Biology"**, *LMU*, Munich.
03/19	**Learning Video Production in Class**, *Teacher candidate seminar*, Darmstadt.
	Introduce apps (StopMotion Studio, Kinemaster + 4) and project management tools.
01/19	—, *Regional Media Agency*, Frankfurt.
04/19	**"Digital Participation Tools"**, *Network interactive*, Frankfurt.
	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 a 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 (German)	App Development in Class • Teaching Programming using Scratch • Twitter Simply 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.