Andreas Haupt

Curriculum Vitæ

	Education
10/17-07/19	B.Sc. Computer Science, University of Frankfurt. Concentration Probabilistic Machine Learning
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, <i>University of Bonn</i> , 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 Applnventor), 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 , <i>Chair of Discrete Optimisation, EPFL</i> , Lausanne. finish research semester project on maximisation of max-sum diversification.
	Honours
03/13-07/17	Full scholarship , <i>Evangelisches Studienwerk</i> , Schwerte, 1:100-competitive. Evangelisches Studienwerk is one of 13 foundations giving academic state scholarships.
08/18-11/18	Infrastructure Grant (€2000) , <i>State of Hesse</i> , Wiesbaden.

Install an Arduino Lab at Vocational School Groß-Gerau

10/2018 Win 2nd prize ($\in 1500$) 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.
 - o Improve and automise refugee-citizen matching algorithm for NGO "Start with a Friend"
- 10/17-06/19 **Scrum Master**, *Bildungsfestival*, Essen, bildungsfestival.org.
 - o Introduce SCRUM to 20+ volunteer organisation for 100+ student networking event
- 02/17-11/17 **Organiser**, *MLworkshopVilligst*, Tübingen, mlworkshopvilligst.wordpress.com.
 - o 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 \bullet sklearn \bullet keras \bullet C++ \bullet SQL \bullet git \bullet 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.