

Andreas Haupt

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Education

- 09/19-06/25 **PhD Social and Engineering Systems, MIT.**
- 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.**
 - o Conduct research on policy questions for homeland and digital policy matters
 - o 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 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
- 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
- 05/19 **Teaching Programming to non-CS Students**, *Regional Media Agency*, Frankfurt.
An introduction to tools Scratch and Snap! and teaching ideas
- 06/19 **Performance-Lecture “Digital Pedagogy?”**, *Evangelisches Studienwerk*, Villigst.

--- 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

PM Base Certificate Project Management