

# Andreas Haupt

## Curriculum Vitæ

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📄 [indraos.github.io](https://github.com/indraos)

🌐 [andreas-haupt-273794b4](https://www.linkedin.com/in/andreas-haupt-273794b4)

🎧 [indraos](https://soundcloud.com/indraos)

### 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](http://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](http://bildungsfestival.org).
  - Introduce SCRUM to 20+ volunteer organisation for 100+ student networking event
- 02/17-11/17 **Organiser**, *MLworkshopVilligst*, Tübingen, [mlworkshopvilligst.wordpress.com](http://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](http://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    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.