Andreas Haupt

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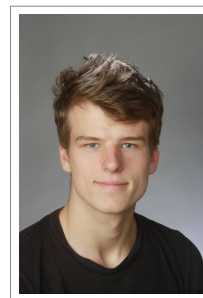
Docendo discimus

Education

2015	**BSc Informatik**, *Goethe-Universität*, Frankfurt, 90/180 Credits.	
	Presently, I work with a group on the Toxic Comment Classification Challenge.	
2015-	**MSc Economics**, *Rheinische Friedrich-Wilhelms-Universität*, Bonn, GPA 3.9, 90/120 Credits.	
	I will look at voting systems with a limited message space for voters.	
2015-2017	**MSc Mathematics**, *Rheinische Friedrich-Wilhelms-Universität*, Bonn, GPA 3.9.	
	My thesis studied classification of graphs theoretically using the theory of graphons and applied it to neuroscience data. [1] contains results from the thesis.	
2013-2014	**MSc Mathematik**, *EPFL*, Lausanne, Without degree.	
	I undertook a research project in discrete optimisation at Prof. Eisenbrands chair: I studied weakly submodular functions. The results can be found here.	
2012-2014	**BSc Mathematik**, *Rheinische Friedrich-Wilhelms-Universität*, Bonn.	
	My thesis studied the integrality gap of the Subtour Elimination Polytope for the special case of the Euclidean Travelling Salesperson Problem.	

Work

2017-2019	**Fellow**, *Teach First Deutschland Berlin gGmbH*, Groß-Gerau, at BeruflicheSchulen Groß-Gerau.
	I teach apprentices and junior high students and establish new working groups at the school (Debating, Model United Nations). Among others, I installed a *Github Classroom* for apprentices. I wrote a (German) introduction to Git for my students here. I teach programming in C#.
3-9/2017	**Scientific Assistant**, *Rheinische Friedrich-Wilhelms-Universität*, Bonn.
	For the chair of stochastic analysis (Prof. Eberle), I unified templates for lecture notes and automatised the creation of images. Please find an example of the revamped notes here.
2-3/2017	**Internship Scientific Assistance**, *Delegate in German Bundestag Marian Wendt*, Berlin, Inner, Digital, NSA.
	I conducted research on subjects of politics of the inner and prepared meetings.

Stipends and certificates

Stipendien

12/2017- 10/2018	**Scholarship**, *Junge Akademie*, Frankfurt. The Young Academy supports me in the development of a social project
4/2013- 9/2017	**Scholarship**, *Evangelisches Studienwerk*, Villigst. Evangelisches Studienwerk is one of the 13 institutions that grants federal scholarships to students.

Certificates

02/2018	"Probabilistic Graphical Models: Representation", "Sequence Models" (Coursera, Stanford University)
10/2017	"Neural Networks and Deep Learning", "Improving Neural Networks: Hyperparameter tuning, Regularisation and Optimization", "Structuring Machine Learning Projects" (Coursera, deeplearning.ai).
9/2017	"Machine Learning" (Coursera, Stanford University).
11/2017	"Satisfied and Successful – the art to fascinate students as a teacher." (Heræus-Bildungsstiftung)

Awards

3/2017	**Honorable Mention Delegation**, *National Model United Nations*, New York, USA.
	This is awarded to the 50% of the best delegations at NMUN.
1/2017	**Diplomacy Award**, *National Model United Nations*, Heidelberg.
	This is an award for the 15% best delegates at the simulation. Here, in the role of China in World Bank.
3/2016– 3/2017	**Mathematisch-Naturwissenschaftliches Kolleg**, *Studienstiftung des Deutschen Volkes*, Bad Honnef, Wittenberg, Nürnberg.
	In three seminar weeks we tackled problems from theoretical computer science, logics and mathematical puzzles.

Languages

English (C2), French (B2)

Digital

LaTeX (expert), `python`, `pandas`, `keras` (advanced), Version Control (Git, Mercurial), C#, Photoshop, InDesign, Matlab, R (good)

Extracurricular

4/2017– 10/2018	**Layout**, *Brühwürfel*, Villigst.
	Ich did the layout of a magazine of Evangelisches Studienwerk. As it was published internally, please contact me, I will send you a version.
11/2017– 08/2018	**Head Delegate**, *SPECQUE sf*, Saarbrücken-Frankfurt.
	I am co-head delegate of a delegation to the French speaking simulation of the European parliament SPECQUE
7/2017– 6/2018	**Event Logistics**, *Bildungsfestival*, Essen.
	Bildungsfestival is the venue where 180 students give self-envisioned workshops for other students. I am doing event logistics here.
9/2017– 3/2018	**PR**, *Learning Holidays Work Hard Get Smart*, Baden-Württemberg.
	I created avertising material for the holidays in InDesign.
09/2015– 11/2016	**Participant in Programme Commitee**, *Evangelisches Studienwerk*, Villigst.
	For the summer university of Villigst, I did the correspondence for seminars on syncretism, matching algorithms and text statistics.
3/2015– 3/2016	**Editor**, *Bonn Journal of Economics*, Bonn.
	I helped authors in creating an extended abstract of their thesis for the journal. Furthermore, I created a new LaTeX template for it. Here you find an issue I typeset.

References

[1] Andreas Haupt et al. "Classification on Large Networks: A Quantitative Bound via Motifs and Graphons". In: *CoRR* abs/1710.08878 (2017). arXiv: 1710.08878. URL: http://arxiv.org/abs/1710.08878.

Invited talks

11/2017	**Organiser**, *MLworkshopVilligst*, Tübingen.
	I organised a workshop on the theory and practice of machine learning at Tübingen
10/2017	**Panelist**, *Jens Weidmann and Klaas Knot Meet Students*, Frankfurt.
	After a selection process, I participated in a panel discussion with Jens Weidman and Klaas Knot.
9/2017	**Speaker**, *Workshop* Intelligent Machines, Schwerte.
	I lead a workshop on recommender systems.

Frankfurt, February 16, 2018