

Claas A. Voelcker

MASTER STUDENT IN COMPUTER SCIENCE

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Education

Technische Universität Darmstadt

Darmstadt, Germany

M.Sc. IN COMPUTER SCIENCE

since 04/2018

- thesis topic: Object segmentation and detection for reinforcement learning applications
- thesis supervisors: Karl Stelzner, Prof. Kristian Kersting
- notable courses: "Deep generative models", "Deep Learning: Methods & Architectures", "Reinforcement Learning"
- current GPA: 3.9

Technische Universität Darmstadt

Darmstadt, Germany

B.Sc. IN COMPUTER SCIENCE

10/2014 - 04/2018

- thesis topic: DeepNotebooks – Interactive data analysis using Sum-Product Networks
- thesis supervisor: Prof. Kristian Kersting
- graduated with honors, GPA 3.75
- notable courses: "Introduction to AI", "Statistical Machine Learning", "Data Science Practical Lab"

Eichendorffschule

Kelkheim, Germany

ALLGEMEINE HOCHSCHULREIFE

June 2013

- German final grade: 1.0
- stayed at the German School New York from 06/06 - 02/08

Jobs

TU Darmstadt - Chair of Artificial Intelligence and Machine Learning

Darmstadt, Germany

RESEARCH ASSISTANT

since 10/18

- developer of the DeepNotebook framework for interactive data exploration
- data analysis on health care data to predict heart attack risk in ICU patients (in cooperation with UKE Hamburg)

TU Darmstadt - Department of Computer Science

Darmstadt, Germany

TEACHING ASSISTANT

10/15 - 10/18

- tutor for the courses "Introduction to computer science", "Parallel programming", "Propositional and first-order logic"
- supervision and coaching of student software development teams

Security Research Labs

Berlin, Germany

RESEARCH INTERNSHIP

08/16

- implementation of a remote execution API for automatic pen testing
- data analysis on large scale phishing campaign data to determine staff training strategies

Deutsche Bank AG

Eschborn, Germany

JUNIOR PROJECT MANAGEMENT CONSULTANT

01/15 - 03/16

- technical implementation and supervision of the "Roadshow Cyber Security Awareness" campaign presented in Berlin, London, Singapore and New York

Extracurricular Activity

Conference of Aspiring Students in Tech – Rhein-Main

Darmstadt, Germany

ORGANIZING COMMITTEE

06/18 - 03/19

- part of the organizing committee for the first CASTrm, a conference targeted at students aspiring to become researchers
- helped to write prize winning concept
- in charge of coordination for the program and the diversity team

TU Darmstadt

Darmstadt, Germany

UNIVERSITY SENATE COMMITTEE ON STUDIES AND TEACHING

10/16 - 10/18

- student representative on the board for studies and teaching
- mainly responsible for reviewing the study plans of the departments

Department of Computer Science, TU Darmstadt

Darmstadt, Germany

BOARD OF THE FACULTY OF COMPUTER SCIENCE

10/2016 - 10/17, 10/18 - 10/19

- elected student member for the faculty board
- member of several professorial appointment commissions

Departement of Computer Science, TU Darmstadt

Darmstadt, Germany

FACULTY STUDENT ASSOCIATION

since 10/15

- member of the student council, working on teaching evaluation, the university's senate committee for studies and first semester introduction; member and organizer of the Conference of German Computer Science Students

Diocese of Alaminos

Alaminos, Phillipines

INTERNATIONAL VOLUNTEER SERVICE

08/13 - 12/13

- international volunteer of the diocese of Limburg assigned to the diocese of Alaminos, Pangasinan; working with disabled children and the elderly

Writing

Structured Object-Aware Physics Prediction for Video Modeling and Planning

under review, preprint available

KOSSEN, J., STELZNER, K., HUSSING, M., VOELCKER, C., & KERSTING, K.

- paper on generative scene models for physical systems from images

DeepNotebooks: Deep Probabilistic Models Construct PythonNotebooks for Reporting Datasets

ECML/PKDD - ADS workshop 2019

VOELCKER, C., MOLINA, A., NEUMANN, J., WESTERMANN, D., & KERSTING, K.

- paper on automatic data analysis using sum product networks
- published at the Automatic Data Science Workshop, cohosted with ECML/PKDD 2019

Talks

DeepNotebooks

ECML/PKDD - ADS workshop 2019

SPEAKER

- contributed talk on the DeepNotebooks framework for exploratory data analysis

Lecture on Variational Autoencoders

Deep Generative Models 2019, TU Darmstadt

GUEST LECTURER

- invited guest lecturer during the summer term iteration of Deep Generative Models

What is "fair"? - Tackling challenges in modern AI

MRMCD 2018, Darmstadt

SPEAKER

- contributed talk on fairness and biases in AI at the Meta Rhein Main Chaos Days

Awards

Deutschlandstipendium

AWARDED BY TU DARMSTADT

10/15 - 10/19

- scholarship awarded to 1% of students for academic excellence

Abiturpreis

AWARDED BY THE GERMAN ASSOCIATION FOR MATHEMATICS

07/13

- award for achieving the highest possible grade in the final mathematics exam in high school

Skills

Programming	Python, Java, Scala, LaTeX
Machine Learning	Pytorch, Tensorflow, Numpy, Pandas
Languages	German (fluent), English (fluent), French, Latin, Tagalog/Filipino