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Education

University of Toronto

PHD IN COMPUTER SCIENCE

since 09/2020

04/2018 - 07/2020

- thesis topic: Probabilistic task aware models for reinforcement learning
- academic supervisors: Prof. Animesh Garg, Prof. Amir-massoud Farahmand

Technische Universität Darmstadt

Darmstadt, Germany

M.Sc. IN COMPUTER SCIENCE

- 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"
- graduated with honors, GPA: 3.9

Technische Universität Darmstadt

Darmstadt, Germany

10/2014 - 04/2018 B.Sc. IN COMPUTER SCIENCE

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

Eichendorffschule Kelkheim, Germany

ALLGEMEINE HOCHSCHULREIFE June 2013

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

Johs

University of Toronto, Vector Institute

Darmstadt, Germany

GRADUATE RESEARCH ASSISTANT

since 09/20

· Main project: probabilistic models and uncertainty quantification in task aware and meta reinforcement learning

TU Darmstadt - Chair of Artificial Intelligence and Machine Learning

Darmstadt, Germany

RESEARCH ASSISTANT

10/18 - 07/2020

10/15 - 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

RESEARCH INTERNSHIP

tutor for the courses "Introduction to computer science", "Parallel programming", "Propositional and first-order logic"

- supervision and coaching of student software development teams
- · graduate teaching assistant for "Statistical machine learning"

Security Research Labs Berlin, Germany

• implementation of a remote execution API for automatic pen testing

08/16

· data analysis on large scale phishing campaign data to determine staff training strategies

Deutsche Bank AG Eschborn, Germany

JUNIOR PROJECT MANAGEMENT CONSULTANT

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

OCTOBER 8, 2020

Extracurricular Activity

Conference of Aspiring Students in Tech - Rhein-Main

Darmstadt, Germany

10/16 - 10/18

Organizing commitee 06/18 - 03/19

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

TU Darmstadt Darmstadt, Germany

University senate committee on studies and teaching

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

Department of Computer Science, TU Darmstadt

BOARD OF THE FACULTY OF COMPUTER SCIENCE

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

Diocese of Alaminos

Alaminos, Phillipines

INTERNATIONAL VOLUNTEER SERVICE

08/13 - 12/13

Darmstadt, Germany

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

• 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

accepted for presentation at ICLR 2020, 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_____

DeepNotebooksECML/PKDD - ADS workshop 2019

SPEAKER

· contributed talk on the DeepNotebooks framework for exploratory data analysis

Lecture on Variational Autoencoders

DGM 2019, TU Darmstadt

GUEST LECTURER

• invited guest lecturer during the summer term 2019 iteration of the Deep Generative Models lecture

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 MATHEMATICAL ASSOCIATION

07/13

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