Stefan M. Schulz

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Education

University of Bonn — 04/2023 - 10/2024

Master of Science, Computer Science | current GPA: 1.7
- Semester abroad at Aalto University, Finland — 08/2023 - 01/2024

Coursework: Quantum Machine Learning, Numerical Algorithms for Visual Computing and Machine Learning, Computer Vision, Lab Physics-based Deep Learning

University of Bonn — 10/2019 - 03/2023

Bachelor of Science, Computer Science | GPA: 1.3 (excellent)

Coursework: Data-centric Computer Science, Foundations of Artificial Intelligence, Introduction to Data Science, Computational Intelligence, Linear Algebra, Calculus, Introduction to Probability and Statistics

Friedrich-Ebert-Gymnasium, Bonn — 09/2011 - 05/2019

Abitur | GPA: 1.4

International Baccalaureate | Points: 35
- Semester abroad at Nanaimo District Secondary School, Vancouver Island, Canada — 09/2016 - 02/2017

Professional Development

deeplearning.ai, Coursera — 07/2020 - 10/2020
MOOC - Deep Learning Specialization

deeplearning.ai, Coursera — 07/2020 - 10/2020
MOOC - Natural Language Processing Specialization

University of Washington, Coursera — 07/2020 - 10/2020
MOOC - Machine Learning Specialization

Hasso-Plattner-Institut, openHPI — 03/2020 - 05/2020
MOOC - Practical Introduction to Deep Learning for Computer Vision

Skills

Programming: Python, Java, C++, HTML, CSS

Tools: git, PyTorch, Python scientific libraries, LaTeX, MS Office

Languages: German (mother tongue), English (C1), Spanish (B2), French (B1)

Experience

University of Bonn — 08/2021 - today

Tutor for "Computational Intelligence" — 04/2024 - today
- Supervising 2 exercise groups (7 & 11 students) meeting weekly
- Grading assignments and preparing exercise solutions

Research Assistant with focus on VR/AR/Computer Vision — 03/2024 - today
- Working on a program for interactive reconstruction of primitive-based plant structure

Research Assistant with focus on Medical Computer Vision — 05/2023 - 11/2023
- Worked on image segmentation techniques for automated drusen instance-aware segmentation in OCT-Scans
- Analyzed characteristics of drusen and checking if these can be categorized into different types

Research Assistant with focus on Computer Vision — 02/2023 - 10/2023
- Worked on different image inpainting techniques in 3D to reconstruct temperature data from satellites
- Publication: https://www.mdpi.com/1424-8220/24/5/1604

Tutor for "Intelligent Vision Systems" — 10/2022 - 04/2023
- Supervised 2 exercise groups (9 & 6 students) meeting weekly
- Graded assignments and explained assignment solutions to the students
- Helped correcting all exams

Research Assistant with focus on Robotics/Computer Vision — 04/2022 - 10/2022
- Helped building another version of our robots for the university robotics team called „NimbRo"
- Won the AdultSize Humanoid League as well as the Technical Challenges, and the Best-Humanoid Award at RoboCup 2022
- Publication: https://arxiv.org/pdf/2302.02956.pdf

Tutor for "Computational Intelligence"   04/2022 - 10/2022
- Supervised 2 exercise groups (8 & 11) meeting weekly
- Graded assignments and explained solutions to the students
- Prepared exam solutions and helped grading exams

Tutor for "Data-centric Computer Science" & "Foundations of Robotics"   09/2021 - 04/2022
For "Data-centric Computer Science":
- Helped preparing 17 lecture slides and 6 exercise sheets
- Supervised 4 exercise groups (24 & 24 & 12 & 9 students) meeting bi-weekly
- Graded assignments and explained assignment solutions to the students
- Helped correcting all exams

For "Foundations of Robotics":
- Supervised 2 exercise groups (16 & 20 students) meeting weekly
- Provided material for and explained assignment solutions to the students

Research Assistant with focus on Robotics/Computer Vision   08/2021 - 10/2021
- Worked on Image-to-Image translation methods for Pose Estimation of Humanoid Robots

SERgroup Holding International GmbH, Bonn   08/2017 - 08/2017
Intern for Project Development & Project Handling

SERgroup Holding International GmbH, Bonn   08/2016 - 08/2016
Intern for Project Development

Awards

- Deutschlandstipendium   10/2020 - 10/2021
- Deutschlandstipendium   10/2021 - 10/2022
- Deutschlandstipendium   10/2022 - 10/2023
- Deutschlandstipendium   10/2023 - 10/2024

Volunteering

- Member of local youth care   05/2018 - 07/2021
  - Organization and carryout of multiple summer camps