Stefan M. Schulz

Education _____

| University of Bonn Ph.D., Computer Science Dissertation: Differentiable Scene Representation for 4D/6D Capture, Reconstruction and Synthesis • Member of the Visual Computing Incubator Software team setting up software for our Capture Stage (5.5m diameter) University of Bonn Master of Science, Computer Science GPA: 1.4 • Semester abroad at Aalto University, Finland Osy2023 - 01/2024 Master of Science, Computer Science GPA: 1.4 • Semester abroad at Aalto University, Finland Osy2023 - 01/2024 Osy2024 - 04/2025 University of Bonn Machine Learning, Numerical Algorithms for Visual Computing and Machine Learning, Numerical Algorithms for Visual Computing and Machine Learning, Computer Science, Foundations of Artificial Intelligence, Introduction to Data 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 Abtur GPA: 1.4 International Baccalaureate Points: 35 • Semester abroad at Nanaimo District Secondary School, Vancouver Island, Canada Professional Development deeplearning, ai, Coursera MOOC - Natural Language Processing Specialization University of Washington, Coursera MOOC - Natural Language Processing Specialization University of Washington, Coursera 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 Teaching Assistant for "Introduction to Computer Graphics and Visualization" • Supervising I exercise groups (18 students) meeting weekly • Gradica assignments and preparing exercise solutions Research Assistant with focus on MR/AR/Computer Vision 03/2024 - today 03/2024 - today 03/2024 - today 05/2023 - 11/2023 | Education | |
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| Dissertation: Differentiable Scene Representation for 41)/610 Capture, Reconstruction and Symbesis Member of the Visual Computing Incubator Technical team building another Capture Stage Member of the Visual Computing Incubator Technical team building another Capture Stage (5.5m diameter) University of Bonn | University of Bonn | 12/2024 - 12/2027 |
| • Member of the Visual Computing Incubator Technical team building another Capture Stage (5.5m diameter) University of Bonn • Semester abroad at Aalto University, Finland • Osework: Quantum Machine Learning, Numerical Algorithms for Visual Computing and Machine Learning, Computational Methods for Stochastics, Bayesian Data Analysis University of Bonn Bachelor of Science, Computer Science GPA: 1.3 (excellent) Compework: 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 Abitur GPA: 1.4 International Baccalaureate Points: 35 • Semester abroad at Nanaimo District Secondary School, Vancouver Island, Canada Professional Development deeplearning, ai, Coursera MOOC - Deep Learning Specialization deeplearning, ai, Coursera MOOC - Natural Language Processing Specialization University of Washington, Coursera MOOC - Machine Learning Specialization Hasso-Plattner-Institut, openHPI 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 Teaching Assistant for "Introduction to Computer Graphics and Visualization "04/2025 - today • Supervising 1 exercise groups (18 students) meeting weekly • Grading assignments and preparing exercise solutions Teaching Assistant for "Technical Informatics" • Helped organizing exams and conducted exam reviews Tutor for "Computational Intelligence" • O4/2024 - today • Supervising 1 exercise groups (7 & 11 students) meeting weekly • Gradied assignments and preparing exercise solutions Research Assistant with focus on VR/AR/Computer Vision • Supervisid 2 exercise groups (7 & 11 students) meeting weekly • Graded assignments and preparing exercise solutions Research Assistant | | d Synthesis |
| Master of Science, Computer Science GPA: 1.4 • Semester abroad at Aalto University, Finland Coursework: Quantum Machine Learning, Numerical Algorithms for Visual Computing and Machine Learning, Computational Methods for Stochastics, Bayesian Data Analysis University of Bonn 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 Priedrich-Ebert-Gymnasium, Bonn Abitur GPA: 1.4 International Baccalaureate Points: 35 • Semester abroad at Nanaimo District Secondary School, Vancouver Island, Canada O9/2016 - 02/2017 Professional Development deeplearning.ai, Coursera MOOC - Deep Learning Specialization deeplearning.ai, Coursera MOOC - Natural Language Processing Specialization University of Washington, Coursera MOOC - Natural Language Processing Specialization University of Washington, Coursera MOOC - Practical Introduction to Deep Learning for Computer Vision Skills Programming: Python, Java, C++, HTML, CSS 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 108/2021 - today Teaching Assistant for "Introduction to Computer Craphics and Visualization" • Supervising 1 exercise groups (18 students) meeting weekly • Grading assignments and preparing exercise solutions Teaching Assistant for "Technical Informatics" • Eleped organizing exams and conducted exam reviews Tutor for "Computational Intelligence" • Supervised 2 exercise groups (7 & 11 students) meeting weekly • Graded assignments and preparing exercise solutions Research Assistant with focus on VR/AB/Computer Vision • Worked on a program for interactive reconstruction of primitive-based plant structure | | |
| • Semester abroad at Åalto University, Finland Coursework; Quantum Machine Learning, Numerical Algorithms for Visual Computing and Machine Learning, Computational Methods for Stochastics, Bayesian Data Analysis 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 Abitur GPA: 1.4 International Baccalaureate Points: 35 • Semester abroad at Nanaimo District Secondary School, Vancouver Island, Canada O9/2016 - 02/2017 Professional Development deeplearning.ai, Coursera MOOC - Deep Learning Specialization deeplearning.ai, Coursera MOOC - Natural Language Processing Specialization University of Washington, Coursera MOOC - Machine Learning Specialization University of Washington, Coursera 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 Teaching Assistant for "Introduction to Computer Graphics and Visualization " 04/2025 - today • Supervising I exercise groups (18 students) meeting weekly • Grading assignments and preparing exercise solutions Teaching Assistant for "Technical Informatics" • Supervised 2 exercise groups (7 & 11 students) meeting weekly • Graded assignments and preparing exercises solutions Teaching Assistant for "Technical Informatics" • Supervised 2 exercise groups (7 & 11 students) meeting weekly • Graded assignments and preparing exercises solutions Teaching Assistant for interactive reconstruction of primitive-based plant structure | University of Bonn | 04/2023 - 10/2024 |
| Coursework: Quantum Machine Learning, Numerical Algorithms for Visual Computing and Machine Learning, Computational Methods for Stochastics, Bayesian Data Analysis University of Bonn 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 Abitur CPA: 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 MOOC - Deep Learning Specialization deeplearning.ai, Coursera MOOC - Natural Language Processing Specialization University of Washington, Coursera MOOC - Natural Language Processing Specialization University of Washington, Coursera 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 Teaching Assistant for "Introduction to Computer Graphics and Visualization "04/2025 - today Supervising I exercise groups (18 students) meeting weekly Grading assignments and preparing exercise solutions Teaching Assistant for "Technical Informatics" 12/2024 - 04/2025 Helped organizing exams and conducted exam reviews Tutor for "Computational Intelligence" Od/2024 - today Supervised 2 exercise groups (7 & 11 students) meeting weekly Grading assignments and preparing exercise solutions Research Assistant with focus on VR/AB/Computer Vision Od/2024 - today Worked on a program for interactive reconstruction of primitive-based plant structure | Master of Science, Computer Science GPA: 1.4 | |
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| Abitur GPA: 1.4 International Baccalaureate Points: 35 • Semester abroad at Nanaimo District Secondary School, Vancouver Island, Canada **Professional Development** deeplearning.ai, Coursera MOOC - Deep Learning Specialization deeplearning.ai, Coursera MOOC - Natural Language Processing Specialization University of Washington, Coursera MOOC - Machine Learning Specialization Hasso-Plattner-Institut, openHPI 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 **O*Abitive Learning Specialization **O*Abitive Learning Sp | | |
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| • Semester abroad at Nanaimo District Secondary School, Vancouver Island, Canada **Professional Development deeplearning.ai, Coursera | · | |
| Professional Development deeplearning.ai, Coursera MOOC - Deep Learning Specialization deeplearning.ai, Coursera MOOC - Natural Language Processing Specialization University of Washington, Coursera MOOC - Machine Learning Specialization Hasso-Plattner-Institut, openHPI 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 Teaching Assistant for "Introduction to Computer Graphics and Visualization" Supervising 1 exercise groups (18 students) meeting weekly Grading assignments and preparing exercise solutions Teaching Assistant for "Technical Informatics" Helped organizing exams and conducted exam reviews Tutor for "Computational Intelligence" Supervised 2 exercise groups (7 & 11 students) meeting weekly Graded assignments and preparing exercise solutions Research Assistant with focus on VR/AR/Computer Vision Worked on a program for interactive reconstruction of primitive-based plant structure | | 09/2016 - 02/2017 |
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| MOOC - Deep Learning Specialization deeplearning.ai, Coursera MOOC - Natural Language Processing Specialization University of Washington, Coursera MOOC - Machine Learning Specialization Hasso-Plattner-Institut, openHPI 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 Teaching Assistant for "Introduction to Computer Graphics and Visualization "04/2025 - today • Supervising 1 exercise groups (18 students) meeting weekly • Grading assignments and preparing exercise solutions Teaching Assistant for "Technical Informatics" • Helped organizing exams and conducted exam reviews Tutor for "Computational Intelligence" • Supervised 2 exercise groups (7 & 11 students) meeting weekly • Graded assignments and preparing exercise solutions Research Assistant with focus on VR/AR/Computer Vision • Worked on a program for interactive reconstruction of primitive-based plant structure | <u> </u> | 07/2020 10/2020 |
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| Graded assignments and preparing exercise solutions Research Assistant with focus on VR/AR/Computer Vision Worked on a program for interactive reconstruction of primitive-based plant structure | · | 04/2024 - today |
| • Worked on a program for interactive reconstruction of primitive-based plant structure | | |
| | | 03/2024 - today |
| · | | 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 | • Worked on image segmentation techniques for automated drusen instance-aware segmen | tation in OCT-Scans |

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
- Was responsible for doing literature review, proposal of a suitable method and major implementations

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

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

\mathbf{Awards}

| DeutschlandstipendiumDeutschlandstipendium | 10/2020 - 10/2021 10/2021 - 10/2022 10/2022 - 10/2023 10/2023 - 10/2024 |
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Publications _

- N. Wandel, S. Schulz, R. Klein. Metamizer: a Versatile Neural Optimizer for Fast and Accurate Physics Simulations. ICLR 2025
- F. Huber*, S. Schulz*, V. Steinhage. Deep Interpolation of Remote Sensing Land Surface Temperature Data with Partial Convolutions. Sensors 2024, 24, 1604
- D. Pavlichenko, G. ficht, A. Amini, m. Hosseini, R. Memmesheimer, A. Villar-Corrales, **S. M. Schulz**, M. Missura, M. Bennewitz, and S. Behnke. RoboCup 2022 AdultSize Winner NimbRo: Upgraded Perception, Capture Steps Gait and Phase-based In-walk Kicks. In *RoboCup 2022: Robot World Cup XXV*, pages 240–252. Springer, 2023

Volunteering .

• Member of local youth care

05/2018 - 07/2021

- Organization and carryout of multiple summer camps