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Lars Jebe

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Hi, I'm Lars. I'm a software engineer and researcher, passionate about neural rendering and computational photography. I have experience with mobile camera image signal processing, as well as 3D computer vision and graphics and I'm looking to work on challenging problems together with a great team.

EDUCATION

Stanford University, Stanford, CA *Sep 2017 – Jun 2019*
Master of Science (M. Sc.) in Electrical Engineering, Final GPA: 4.13 / 4.30
Relevant classes (all A+): Machine Learning (CS 229), CNNs for Visual Recognition (CS 231N),
Digital Image Processing (EE 368), Computational Imaging (EE 367), Intro to Computer Graphics (CS 148)

RWTH Aachen University, Aachen, Germany *Oct 2013 – Mar 2017*
Electrical Engineering, Information Technology, Computer Engineering B. Sc.
Final Grade: 1.1, **Best student out of 603 graduates in the program**

PRACTICAL AND VOCATIONAL EXPERIENCE

Research Engineer (Computational Imaging), *Adobe*, San Jose, CA *since Apr 2021*
- Development of mobile RAW pipeline / software ISP (C++, Halide)
- Research on differentiable photographic rendering pipelines, to appear at ACM SIGGRAPH ASIA 2022
- Research on creating multi-perspective photographs using NeRF

Sr. Member of Technical Staff (Compute Team) at *Raxium*, Fremont, CA *Sep 2019 – Jan 2021*
- Research in 3D Vision and Computer Graphics (3D Reconstruction and Novel View Synthesis)
- Creation of Neural Rendering models in Tensorflow and PyTorch, published at CVPR 2021
- Design and calibration of a synchronized multi-view RGBD capture system (Python, SolidWorks)
- Creation of automated image analysis scripts to support material science teams (Python)

Course Assistant (CA) for *CS231N: Convolutional Neural Networks for Visual Recognition,* Stanford *Apr - Jun 2019*

Computational Imaging Intern, *Light*, Palo Alto *Oct - Dec 2018*

Research Assistant at *IVMS Research Lab* (Prof. Girod), Stanford University *Apr - Sep 2018*
- 3D point cloud registration algorithms and 3D shape description (MATLAB)

Research Assistant at *Computational Imaging Lab* (Prof. Wetzstein), Stanford University *Jan - Jun 2018*
- Robust Feature Detection in Light Field Images for Structure from Motion (C++, Python)

Intern for Modelling and Control of Electrical Drives at *Daimler AG,* Stuttgart, Germany *May - Aug 2017*
- Automated evaluation of measurement data (MATLAB)
- Implemented control algorithm for multiphase electrical drives (Simulink)

Research Assistant at *Institute for Power Electronics and Electrical Drives (ISEA)* *Apr 2016 - Apr 2017*
- Research on instantaneous voltage measurements, published at IEEE INTELEC 2016
- Final bachelor thesis research on online sensor calibration, published at IEEE PEDS 2017

Student Assistant (TA) at *Institute of Imaging & Computer Vision and IENT*, RWTH Aachen University
- Classes taught: *"Mathematical Methods in Electrical Engineering", "Signals and Systems"* *2014 - 2016*

RELEVANT PUBLICATIONS

Neural Lumigraph Rendering *2021*
Petr Kellnhofer, **Lars Jebe**, Andrew Jones, Kari Pulli, Gordon Wetzstein
IEEE CVPR 2021, Oral, Best Paper Candidate

Neural Photo Finishing *2022*
Ethan Tseng, Yuxuan Zhang, **Lars Jebe**, Xuaner Zhang, Zhihao Xia, Yifei Fan, Felix Heide, Jiawen Chen
to appear in ACM SIGGRAPH ASIA 2022 (Journal Track)

LEADERSHIP AND ENGAGEMENT

Reviewer: ACM SIGGRAPH, ACM Transactions on Graphics (TOG), Eurographics	*since 2021*
Vice President of the *Stanford German Student Association (SGSA)*	*Jun 2018 – Jun 2019*
Group Leader (Marketing) at *AC.E – Aachener Entrepreneurship Team e.V.*	*Apr 2016 - Apr 2017*
Course instructor of the computer science project group *"IT4Kids"*	*Feb 2015 - Jul 2015*
Student Engineer at *Ecurie Aix – Formula Student Team der RWTH Aachen e.V.*	*Jul 2014 - Aug 2015*

ACHIEVEMENTS AND AWARDS

***German Academic Exchange Service (DAAD)* Fellowship for Graduate Studies**	*Sept 2017 – Jun 2019*
Scholarship of the *German Academic Scholarship Foundation*	*Jul 2015 – Jun 2019*
Award of *the Association of German Electrical Engineers (VDE)*	*Feb 2016*
MATLAB Team Award for the best student project in robotics at *RWTH Aachen University*	*Feb 2014*

You can learn more about me and about selected projects on my website: https://lcjebe.github.io/. Looking forward to connecting!