Millrather Weg 88G, 40699, Erkrath, GERMANY
+49 (151) 700-15633
larsjebe@alumni.stanford.edu

Lars Jebe

lcjebe.github.io
linkedin.com/in/larsjebe

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 love working 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
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 Duty: ACM SIGGRAPH, ACM Transactions on Graphics (TOG), Eurographics, CVPR   *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!