Lars Jebe

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

EDUCATION	
Stanford University, Stanford, CA Master of Science (M. Sc.) in Electrical Engineering, Final GPA: 4.13 / 4.00 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 2	Sep 2017 – Jun 2019 148)
RWTH Aachen University, Aachen, Germany Electrical Engineering, Information Technology, Computer Engineering B. Sc. Final Grade: 1.1, Best student out of 603 graduates in the program	Oct 2013 – Mar 2017
NORK AND PRACTICAL EXPERIENCE	
 Research Engineer (Computational Photography), Adobe, San Jose, CA Leading the design of a highly efficient mobile RAW image processing pipeline (C++, Halide) Developing VisionTransformer (ViT)-based models to parametrize mobile RAW pipeline (PyTorch, C++ Publishing innovative work in top-tier computer vision and graphics conferences and journals Driving the integration of advanced AI technologies into products such as Lightroom or Photoshop Mentoring interns and providing guidance on research projects 	since Apr 202:
 Sr. Member of Technical Staff (Compute Team) at Raxium, Fremont, CA 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) 	Sep 2019 – Jan 2021
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 <i>IVMS Research Lab</i> (Prof. Girod), Stanford University 3D point cloud registration algorithms and 3D shape description (MATLAB) 	Apr - Sep 2018
 Research Assistant at <i>Computational Imaging Lab</i> (Prof. Wetzstein), Stanford University Robust Feature Detection in Light Field Images for Structure from Motion (C++, Python) 	Jan - Jun 2018
Intern for Modelling and Control of Electrical Drives at Daimler AG, Stuttgart, Germany	May - Aug 2017
 Research Assistant at Institute for Power Electronics and Electrical Drives (ISEA) Research on instantaneous voltage measurements, published at IEEE INTELEC 2016 Final bachelor thesis research on online sensor calibration, published at IEEE PEDS 2017 	Apr 2016 - Apr 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

DiffusionRig: Learning Personalized Priors for Facial Appearance Editing Zheng Ding, Xuaner Zhang, Zhihao Xia, Lars Jebe, Zhuowen Tu, Xiuming Zhang CVPR 2023	2023
Neural Photo Finishing Ethan Tseng, Yuxuan Zhang, Lars Jebe , Xuaner Zhang, Zhihao Xia, Yifei Fan, Felix Heide, Jiawen Chen ACM SIGGRAPH ASIA 2022 (Journal Track)	2022
Neural Lumigraph Rendering Petr Kellnhofer, Lars Jebe , Andrew Jones, Kari Pulli, Gordon Wetzstein <i>CVPR 2021, Oral, Best Paper Candidate</i>	2021

LEADERSHIP AND ENGAGEMENT

Reviewer Duty: ACM SIGGRAPH, ACM Transactions on Graphics (TOG), Eurographics, CVPR, ICCV	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: <u>https://lcjebe.github.io/</u>. Looking forward to connecting!