

Yuli Wu

me @ wuyuli.com

B.Sc. RWTH

Interested in

Machine Learning, Deep Learning, Computer Vision
Signal Processing, Medical / Industrial / Agricultural Image Processing
Embedded System, Cyber-Physical System, Autonomous Driving

Experienced in

C, C++, MATLAB, Python
numpy, OpenCV, scikit-image, matplotlib, seaborn
scikit-learn, PyTorch, TensorFlow
LaTeX, TikZ, Markdown, iWork, Microsoft Office, HTML, jekyll
GitHub, GitLab
MacOS, Ubuntu, Windows
AutoCAD, Inventor, Simulink

Education

Sep 2009 - Jul 2012

Xuzhou No.1 Middle School

Sep 2012 - Apr 2013

Nanjing Normal University

B.Sc. in Electrical and Electronics Engineering (*1. Semester*)

Oct 2013 - Dec 2014

University of Stuttgart, RWTH Aachen University

German Course

Oct 2015 - Sep 2018

RWTH Aachen University

B.Sc. in Electrical Engineering, Information Technology and Computer Engineering
with Specialisation of Computer Engineering (*Completed within 6 Semesters*)

Oct 2018 - now

RWTH Aachen University

M.Sc. in Electrical Engineering, Information Technology and Computer Engineering
with Specialisation of Computer Engineering

Work Experience

Mar 2016 - Aug 2016

TOP Technische Objektplanung GmbH

Working Student, Assistant of Fire Alarm Plan using AutoCAD LT

Apr 2017 - Jul 2018

Institute of High Voltage Engineering (IFHT) of RWTH Aachen

Teaching Assistant of Practice Electrical Laboratory for 2 Semesters, and
Teaching Assistant of Practice Metrological Laboratory for 1 Semester

Oct 2017 - Mar 2019

Nuance Communications Aachen GmbH

Working Student, Translation and Test for in-car Voice-Control-System

Jul 2019 - Dec 2019

Institute of Imaging & Computer Vision (LfB) of RWTH Aachen

Student Assistant, Annotation, Software Development, Segmentation

Nov 2019 - Dec 2019

Institute of Imaging & Computer Vision (LfB) of RWTH Aachen

Teaching Assistant of Project MATLAB meets LEGO Mindstorms

Project & Practice

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| Jun 2015 | Pro-8 Project, RWTH Aachen & FH Aachen Modelling using AutoCAD and Inventor |
| Dec 2015 | Project MATLAB meets LEGO Mindstorms Build of a Simple Pianist Robot using Lego and Various Sensors Institute for Man and Machine Interaction (MMI), RWTH Aachen LEGO Mindstorms, MATLAB |
| Jul 2016 , Jan 2017 | Practice Computer Science Laboratory Simulation of Street Traffic containing Various Types of Vehicles C, C++ |
| Apr 2017 - Jul 2017 | Project Kinect, Institute of Imaging & Computer Vision (LfB) of RWTH Aachen Classification of Localised Objects in an Vision-based Autonomous Store using Kinect C++, OpenCV, Image Processing, SVM, Random Forest |
| Apr 2018 - Oct 2018 | Bachelor Thesis, Institute of Imaging & Computer Vision (LfB) of RWTH Aachen "Contour Refinement of Leukocyte Segmentations in Scans of Stained Bone Marrow" (1,3) Supervisor: Philipp Gräbel Python, OpenCV, scikit-image, matplotlib, LaTeX, 30min Presentation in German Links: Thesis ~20MB Slides ~100MB |
| Oct 2018 - Jan 2019 | MATLAB Advanced: Digital Signal Processing Various Tasks like Filter Design, Efficient Programming, C API, Beamformer etc. MATLAB, Signal Processing, Digital Speech Transmission |
| Oct 2018 - Jan 2019 | Seminar, Institute of Imaging & Computer Vision (LfB) of RWTH Aachen "Semantic Instance Segmentation" Supervisor: Long Chen Review of Various Deep Learning Approaches of Instance Segmentation, 30min Presentation in English Links: Document ~6MB Slides ~40MB |
| Apr 2019 - Jul 2019 | Machine Learning Laboratory Various Practical Tasks of Machine Learning Python, scikit-learn, PyTorch |
| Oct 2019 - Jun 2020 | Master Thesis, Institute of Imaging & Computer Vision (LfB) of RWTH Aachen Work-in-Progress ... "Instance Segmentation of Dense Objects via Deep Pixel Embedding" Supervisor: Long Chen Python, TensorFlow |

Language

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| 中文 | Chinese | Native |
| English | English | Fluent |
| Deutsch | German | Fluent, DSH-III Certificate (<i>sehr gut</i>) |
| 日本語 | Japanese | Basic |
| Français | French | Basic |

Driving License

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| Apr 2016 | German Driving License | AM/B/L |
| Sep 2016 | Chinese Driving License | C1 |