

Yuli Wu

me @ wuyuli.com

B.Sc. RWTH

Interested in

Machine Learning, Deep Learning, Computer Vision

Signal Processing, **Biomedical / 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, keras, 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 (IHVE) 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 - Apr 2020

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

Student Assistant, Research Assistant, Annotation, Software Development

Nov 2019 - Dec 2019

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

Teaching Assistant of Project MATLAB meets LEGO Mindstorms

Project & Practice

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 Lab: 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: Image Processing and Content Analysis "Semantic Instance Segmentation with a Discriminative Loss Function" 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 "Instance Segmentation of Dense Objects via Deep Pixel Embedding" (1,0) Supervisor: Long Chen Python, TensorFlow, 2x30min (Interim & Final) Presentation in English Links: Thesis ~20MB Slides ~100MB Preprint ~10MB
Jun 2020	No.1 in Leaf Segmentation Challenge Leaderboard (ECCV2020 Workshop) The Proposed Instance Segmentation Results Outperformed All Other Participants <i>w.r.t. BestDice</i> Links: Codalab Username:Lfb. Last Check: 28 Jun 2020

Language

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

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