14/11/2019 Curriculum Vitae

Yuli Wu

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 Multiple Laboratories for 3 Semesters

Oct 2017 - Mar 2019

Nuance Communications Aachen GmbH

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

Jul 2019 - now

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

Student Assistant, Annotation, Software Development, Segmentation

Project & Practice

Jun 2015

Pro-8 Project, RWTH Aachen & FH Aachen

Modelling using AutoCAD and Inventor

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Dec 2015

Electrical Engineering and Computer Science Project

Build of a Simple Pianist Robot using Various Sensors

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: <u>Thesis</u> ~20MB <u>Slides</u> ~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: <u>Document</u> ~6MB <u>Slides</u> ~40MB

Apr 2019 - Jul 2019

Machine Learning Laboratory

Various Practical Tasks of Machine Learning

Python, scikit-learn, PyTorch

Oct 2019 - May 2020

Master Thesis, Institute of Imaging & Computer Vision (LfB) of RWTH Aachen

Work-in-Progress ...

"Study of Loss Functions in Deep Networks for Instance Segmentation of Medical Images"

Supervisor: Long Chen Python, TensorFlow

Language

 $_{\mbox{\scriptsize phy}}$ Chinese Native English Fluent

Deutsch German Fluent, DSH-III Certificate (sehr gut)

日本語 **Japanese** Basic Français **French** Basic

Driving License

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

https://yuliwu.qithub.io/cv/