

Xuqin WANG

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EDUCATION

Telecom Paris, Institut Polytechnique de Paris

Palaiseau, France

Diplôme d'ingénieur (M.S.), Data Science and Image Processing

Sep. 2020 – Sep. 2022

Correlated curriculum: Image mining and content-based retrieval, 3D Computer Vision, Point clouds and 3D Modelling, Object detection and tracking, Remote sensing, Statistics, Optimisation, Multi-View Geometry, Graph Mining, Machine Learning, Deep Learning, Reinforcement Learning, etc.

GPA: 3.94/4 (Grade: 14.3/20)

Relevant Coursework:

- *Feature Detection, Description and Matching (Python)*
- *Optical flow estimation from a sequence of images*
- *Object tracking with Hough Transform and Mean shift*
- *Stereo images Disparity Map Estimation leveraging Seed expansion and Graph Cut (C++)*
- *Image classification and Image super-resolution with CNN (TensorFlow, Keras)*
- *Iterative Closest Points algorithm for point cloud registration (Python)*
- *Poisson Surface Reconstruction using implicit function framework and implicit moving least-squares surface formulation*
- *Surface segmentation by vote through RANSAC*
- *Reproduction of Bundle-Adjusting Neural Radiance Fields*

Technical University of Munich

Munich, Germany

Exchange student

Oct 2019 – Mar. 2020

Grade: 1.7

Correlated curriculum: Edge Computing and the Internet of Things.

Shanghai Jiao Tong University

Shanghai, China

B.S., Computer Science and Technology

Sep. 2016 – July 2020

GPA: 3.46/4.3 (Grade: 83.88/100)

Correlated curriculum: Data Structure, Probability and Statistics, Algorithms and Complexity, Operation System, Computer Network, Software Engineering, etc.

RESEARCH EXPERIENCE

Tremau & Telecom Paris, IP Paris

Paris, France

Computer Vision / Artificial Intelligence Research Internship
(Python3.9, PyTorch, OpenCV2)

March. 2022 – Sep. 2022

Tutor: Theodoros Evgeniou

- Literature review of image and video detection and recognition solutions.
- Identification and creation of relevant Datasets and pipeline.
- Design and development of a reliable AI model to re-detect harmful images.

PROJECTS

Valeo.ai & Telecom Paris, IP Paris

Palaiseau, France

Course Project (Python3, PyTorch)

Oct. 2021 – Jan. 2022

Supervisor: Florence Tupin

- Exploration of different pre-processing strategy for 3D radar signal input of multi-view semantic segmentation network.
- Statistical analysis of 3D radar tensor and performance experiment of different data representation of scene with Encoder-Decoder structure AI model.

PROFESSIONAL EXPERIENCE

Siemens Industry Software (Shanghai) Co., Ltd.

Shanghai, China

Summer intern (C++)

July 2019 – Aug. 2019

- Experience with modelling software NX UG and its internal diagnostic & maintenance tool.
- Test and maintenance of NU UG code and secondary development PMI software through UG open API.

PwC China

Shanghai, China

Winter intern (MySQL)

Feb. 2019 – Apr. 2019

- Cooperated with engagement team. Normalised, processed and analysed client's companies' financial statement of the form regulated by the State Taxation Bureau.

ADMINISTRATION

Vice-chairman of Association for science and technology

Shanghai Jiao Tong University

Jun. 2018 – Apr. 2019

- Co-organised annual freshmen technology competition in SJTU with other vice-chairman, and got 200 participants and sponsor from iRobot company.

HONOURS & AWARDS

First Prize of Chinese College Students Computer Design Competition

2019

Zhiyuan Overseas Research Scholarship

2019

SKILLS

Programming Languages: Experienced: Python, C++ **Familiar:** JavaScript, HTML, Java Swing

Frameworks: Jupyter | PyTorch | TensorFlow (Keras) | MySQL | OpenCV2

Certifications: edX Verified Certificate for Optimization: principles and algorithms - Linear optimization, Non-linear optimization.

Languages: Native: Chinese, **Fluent:** English (TOEFL iBT 99), **Intermediate:** French (TEF express 488/699, B2)

REFERENCES

2 references with the following information:

Professor Theodoros Evgeniou

INSEAD Europe Campus

Boulevard de Constance

77305 Fontainebleau Cedex, France

Email: theodoros.evgeniou@insead.edu

Professor Florence Tupin

Image, Data, Signal Department

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11.06.2022