Xuqin WANG

19 place Marguerite Perey, 91120 Palaiseau,
Telecom Paris, Institut Polytechnique de Paris
Tel: (33) 06 20 75 73 27
Email: xuqin.wang@telecom-paris.fr
Web: http://xuqinwang.github.io/

EDUCATION

Telecom Paris, Institut Polytechnique de Paris   Palaiseau, France

Diplôme d'ingénieur (M.S.), Data Science and Image Processing   Sep. 2020 – Present

GPA: 3.8/4 (Grade: 14/20)

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

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   March. 2022 – Present
(Python3.9, PyTorch, OpenCV2)
Tutor: Theodoros Evgeniou
- Identified and created relevant Datasets and AI Pipeline.
- Designed and optimized the image retrieval method based on handcrafted local feature detectors and CNN models for detecting harmful copied images, and deeply explored feature spaces, around 65% copied images were well identified while preserving 95% precisions.
- Tested the established method on various datasets and developed codebase.

PROJECTS

Valeo.ai & Telecom Paris, IP Paris   Palaiseau, France
Course Project (Python3, PyTorch)   Oct. 2021 – Jan. 2022
Supervisor: Florence Tupin
- Reproduced the paper work of multi-view semantic segmentation Encoder-Decoder neural network for automotive driving and analysed statistical distribution of 3D radar tensor.
- Applied different pre-processing strategies to 3D radar tensor and inputed into the neural network, and conducted experiment on the benchmark.

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
Academic Progress Scholarship	2018

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
Telecom Paris - LTCI - Institut Polytechnique de Paris
19 place Marguerite Perey
91120 Palaiseau, France
Email : Florence.tupin@telecom-paris.fr