

HAO WANG

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EDUCATION

The University of Edinburgh
MSc with Distinction in Informatics
Supervisor: Robert B. Fisher

2018 - 2019
Edinburgh, UK

Beijing University of Posts and Telecommunications
B.Eng. in Telecommunication Engineering
Supervisor: Aidong Men

2014 - 2018
Beijing, China

Högskolan i Skövde
Exchange Student in Informationsteknologi
Concentration: Operating Systems, System Administration

Sept. 2016 - Jan. 2017
Skövde, Sweden

PUBLICATION

Beyond 3DMM Space: Towards Fine-grained 3D Face Reconstruction
*X Zhu, F Yang, D Huang, C Yu, **H Wang**, J Guo, Z Lei, S Z. Li*

ECCV 2020

ACADEMIC PROJECTS

Fine-grained 3D Face Reconstruction

Oct. 2019 - Mar. 2020

- Constructed a new 3D face dataset
- Proposed a new model for fine-grained 3D face reconstruction

Gender Identification from 3D Facial Surface Model

Feb. 2019 - Aug. 2019

Dissertation for Master's degree

- Proposed a novel method on 3D facial gender identification with machine learning & conformal mapping
- Evaluated the proposed method and obtained competitive performance (accuracy over 88%)

Action Recognition Model with First-Person Videos

Jan. 2019 - Mar. 2019

- Evaluated third-person action recognition methods with first-person datasets
- Compared the differences between the third and first-person methods
- Proposed and studied a new model combining MobileNet and Two-stream Pyramid

Image Super-Resolution with Convolutional Neural Network

Dec. 2017 - June 2018

Dissertation for Bachelor's degree

- Realized the subpixel-based image super-resolution method with pixel shuffle
- Tested the model on both image and video datasets

RESEARCH EXPERIENCE

National Laboratory of Pattern Recognition, CASIA

Research Intern

Oct. 2019 - Present

Beijing, China

- Advisors: Xiangyu Zhu, Zhen Lei
- Projects: Fine-grained 3D face reconstruction; Face forgery detection

Next Generation Internet Research Center, BUPT

Undergraduate Research Assistant

May 2017 - Oct. 2017

Beijing, China

- Advisor: Yang Liu
- Projects: Optimization on DASH-based video service in high-speed railway networks with stochastic methods; Network flow variation detection with mobile crowd sensing

SKILLS

Programming Languages: Python, MATLAB, C/C++, Java, VHDL, Verilog, Assembly Language

Tools: PyTorch, Tensorflow, OpenCV, Dlib

Others: Linux, Git, SQL, L^AT_EX, FPGA, Arduino, Raspberry Pi