

# Xiao (Brandon) Han

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## Research Interests

Computer vision with deep learning, multi-modal deep learning, vision and language pre-training, fine-grained image retrieval, cross-modal image retrieval, text-guided image retrieval

## Education

### University of Surrey

PH.D. STUDENT

- Major in Vision and Signal Processing at Centre for Vision, Speech and Signal Processing (CVSSP)
- Supervisors: Prof. Tao Xiang and Prof. Yi-Zhe Song
- Thesis Topic (TBD): Fine-Grained Cross-Modal Learning with Deep Neural Networks

Guildford, UK

Jan. 2021 - Jan. 2025

### Zhejiang University

BACHELOR OF ENGINEERING

- Major in Information Engineering at College of Information Science and Electronic Engineering (ISEE)
- Cumulative GPA: 3.92 / 4.00, Third-year GPA: 3.94 / 4.00, Rank: 21 / 138
- Thesis Topic: Deep Learning-Based Features Prediction for Mass Spectrometry of Protein

Hangzhou, China

Sep. 2016 - Jun. 2020

### Non-Degree Academic Experiences:

2020	Visiting student with Dr. Li Zhang at ZVG, Fudan University
2019	Research assistant with Dr. Changbin Yu at AiR, Westlake University
2019	Visiting student with Prof. L. Jay Guo at EECS, University of Michigan
2018	Exchange student with iESR program at University of Notre Dame

Shanghai, China

Hangzhou, China

Ann Arbor, MI, USA

South Bend, IN, USA

## Work Experiences

### PixelShift.AI

COMPUTER VISION ALGORITHM INTERN

- Mentors : Zhiming Ma and Meng Zhang
- Project : Immersive AR application and deployment of generative models

Shanghai, China

May. 2020 - Sep. 2020

## Publications

### UIGR: Unified Interactive Garment Retrieval

Xiao Han, Sen He, Li Zhang, Yi-Zhe Song, Tao Xiang

Under Review

Nov. 2021

### Text-Based Person Search with Limited Data

Xiao Han, Sen He, Li Zhang, Tao Xiang

BMVC 2021

Nov. 2021

### Inverse Design of Metasurface Optical Filters using Deep Neural Network with High Degrees of Freedom

Xiao Han\*, Ziyang Fan\*, Zeyang Liu\*, Chao Li, and L. Jay Guo

InfoMat

Jun. 2020

## Open-sourced Projects

### TextReID: A modularized codebase for text-based person search

- <https://github.com/BrandonHanx/TextReID>
- Implementation and extension of our paper *Text-Based Person Search with Limited Data*

## Honors & Awards

2021-2024	Faculty of Engineering and Physical Sciences/iFlytek Studentship	University of Surrey/iFlytek, UK
2019	Chunzhen International Exchange Scholarship	Zhejiang University, China
2017-2019	3rd Prize, Academic & Outstanding Student Scholarship	Zhejiang University, China
2018	Yongping Scholarship	Zhejiang University, China
2018	3rd Prize, National Talent Training Base Scholarship	Zhejiang University, China
2018	Honorable Mention Prize, Mathematical Contest in Modeling (MCM)	COMAP, U.S.A
2017	3rd Prize, Physics Innovation Competition in Zhejiang Province (Theory Part)	Zhejiang Physical Society, China

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## Skills

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<b>Programming Languages</b>	Python, C/C++, MATLAB, $\LaTeX$ , Verilog, JS/TS, HTML/CSS
<b>Frameworks and Tools</b>	PyTorch, TensorFlow, Git, Docker
<b>Languages</b>	Chinese (native language), English (IELTS: 6.5), Korean (primary)