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   *Guildford, England*
Ph.D. Student   *Jan. 2021 -*
- Centre for Vision, Speech and Signal Processing.
- Supervisors: Prof. Tao Xiang and Prof. Yi-Zhe Song

Zhejiang University   *Hangzhou, China*
Bachelor of Engineering   *Sep. 2016 - Jun. 2020*
- Major in Information Engineering, College of Information Science and Electronic Engineering.
- Cumulative GPA: 3.92 / 4.00, Third-year GPA: 3.94 / 4.00, Rank: 21 / 138

Non-Degree Academic Experiences:

2020	Visiting student with Dr. Li Zhang at Fudan University	*Shanghai, China*
2019	Research assistant with Dr. Changbin Yu at Westlake University	*Hangzhou, China*
2019	Visiting student with Prof. L. Jay Guo at University of Michigan	*Ann Arbor, MI, USA*
2018	Exchange student with iESR program at University of Notre Dame	*South Bend, IN, USA*

Working Experiences

PixelShift.AI   *Shanghai, China*
Computer Vision Algorithm Intern   *May. 2020 - Sep. 2020*
- Mentors : Zhiming Ma and Meng Zhang
- Project : Immersive AR application and deployment of generative models.

Publications

Text-Based Person Search with Limited Data   *BMVC 2021*
Xiao Han, Sen He, Li Zhang, Tao Xiang   *Nov. 2021*

Inverse Design of Metasurface Optical Filters using Deep Neural Network with High Degrees of Freedom   *InfoMat*
Xiao Han*, Ziyang Fan*, Zeyang Liu*, Chao Li, and L. Jay Guo   *Jun. 2020*

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*

Skills

Programming Languages	Python, C/C++, MATLAB, LaTeX, Verilog, JS/TS, HTML/CSS
Frameworks and Tools	Git, PyTorch, TensorFlow, Keras, OpenCV, OpenGL
Languages	Chinese (native language), English (IELTS: 6.5), Korean (primary)