

Hao Chen

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EDUCATION

University of Birmingham

Master in Computer Science, GPA: 80/100 (Distinction)

Birmingham, UK

Sep 2021 - Sep 2022

- **Highlight:** Research Assistant at Birmingham 3D Vision Lab with Prof. Jianbo Jiao.

Massachusetts Institute of Technology

MicroMaster in Statistics and Data Science, GPA: 88/100

Online

Sep 2021 - Sep 2022

Sun Yat-sen University

Bachelor of Engineering in Automation, GPA: 3.51/4.00

Guangzhou, CN

Sep 2017 - June 2021

- **Highlight:** 4th Year: Grade: 95% (Rank 1/230)
- **Scholarships:** Sun Yat-sen University Scholarship for Excellent Students
- **Award:** Sun Yat-sen University Excellent Undergraduate Graduation Thesis Award

RESEARCH EXPERIENCES

Department of Clinical Neuroscience, Cambridge University

Research Assistant

Cambridge, UK

Aug 2023 - now

- Research on trustworthy and explainable AI on medical image analysis.

Brion Environment of Technology in AI (BETA), ASML Holding N.V.

Group Lead

Shenzhen, CN

Dec 2022 - now

- Continued research on Machine Learning on Lens Heating project, under cASCAL production.

Noah's Ark Lab, Huawei London Research Center

Researcher with Prof. Shanxin Yuan and Prof. Ales Leonardis

London, UK

Sept 2021 - Nov 2022

- Research on effective reconstruction of 3D human heads from multi-view monocular images.

Computational Lithography Research Group, ASML Holding N.V.

Researcher with Dr. Chaoqun Guo

Veldhoven, NL

May 2020 - Sept 2021

- Research on correcting non-linear lenses distortion caused by the heating effect of long-term photolithography.

PUBLICATION EXPERIENCES

- **H Chen**, C Qu, C Chen, Y Zhang, J Wang, J Jiao
Multi-view Self-supervised Disentanglement for Low-level Vision [ICCV 2023]
- W Yuan, Y Lu, M Li, B Pan, Y Gao, **H Chen**, et al.
Machine Learning Hotspot Prediction Significantly Improve Capture Rate on Wafer [IWAPS 2020]
- **H Chen**, I Testini, Y Hou, C Qu, J Jiao
360+X: A Panoptic Multi-modal Scene Understanding Dataset [NIPS 2023 Reviewing]
- R Yin*, **H Chen***, K Zhang, G Yang, F Shi, Y Jiang, J Gui
Expanding from unilateral to bilateral: a robust deep learning-based approach for predicting radiographic osteoarthritis progression [Osteoarthritis and Cartilage Reviewing]
- N Chen, J Wang, **H Chen**, Y Shen, S Wang, X Tan
BEVLoc: End-to-end 6-DoF Localization via Cross-modality Correlation Under Bird'S Eye View [ICASSP 2024 Reviewing]
- **H Chen**, C Qu, C Chen, J Jiao
Geometry-Preserving War-Torn World Synthesis from the Peace World [CVPR 2022 Reviewed]
- **H Chen**, A Lattas, Q Ye, S Yuan, A Leonardis
Hierarchical Articulated NeRF for 3D Human Rendering [CVPR 2021 Reviewed]
- **H Chen**, Z Jin.
Low-Light Image Enhancement in the Frequency Domain [BMVC 2021 Reviewed]

PATENT EXPERIENCES

- B Ding, **H Chen**, Z Dai, Q Huang, et al.
An Object Detection Method for Optimal Scheduling of Shared Bicycles [CN113392799A].
- **H Chen**, We HU, Q Jia, M Liu, R Sun, J Wu.
Systems, Products, and Methods for Image-based Pattern Selection [WO2022037921A1]
- M Liu, B Chen, D Shao, J Wu, **H Chen**, A Hamouda, J Cheng.
Pattern Selection Systems and Methods [WO2023046385A1]
- **H Chen**, Z Dai, Q Huang, B Ding, et al.
Indoor Human Posture Detection-based Early Warning Method for Emergency of Elderly [Submitted]

AWARDS, HONORS, AND SCHOLARSHIPS

Kaggle Competition Master (2 Gold and 3 Silver Medals, Rank top 150/201,047)	Kaggle
Gold Medal of RSNA Screening Mammography Breast Cancer Detection (Rank 8/1687)	Kaggle
Gold Medal of RSNA 2022 Cervical Spine Fracture Detection (Rank 2/883)	Kaggle
First place in 2021 ASML Machine Learning Competition	ASML
First place in 2022 ASML Machine Learning Competition	ASML

COMMUNITY SERVICE AND ASSOCIATION EXPERIENCE

Regular Visit and Care For the Elderly	Guangzhou Nursing Home
Founder of University of Birmingham Algorithm Club	University of Birmingham
Deputy Minister of Department of Literature and Art	Student Union of SYSU
Team Captain of College Men's Basketball Team	Sun yat-sen University
Registered Second Level Athlete in China (Men 200M Record 23.4s)	China Sports Council

TECHNICAL SKILLS

Python – proficient, \LaTeX – proficient, C++ – proficient, Git – proficient, Meshlab – proficient