Hao Xu

Computer Science & AI undergraduate student at the University of Sussex

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ACADEMIC EXPERIENCE

University of Sussex, Brighton, UK   Current grade: 85%

BSc in Computer Science & AI, 3 year degree   *Graduating in June 2024*

- Compulsory modules are Computer Science and Artificial Intelligence based: Databases; Natural Language Engineering; Program Analysis; Acquired Intelligence & Adaptive Behaviour; Fundamentals of Machine Learning; Computer Visions
- Optional modules are Neuroscience and Linguistics based: Principles of Neuronal Function and Dysfunction; Language, Mind and Brain

Soochow University, Soochow, China   Grade: 84%

International Bachelor-Sussex Excellence AI Programme at Soochow University   *Sept, 2019 – Jun, 2021*

- Half modules are Computer Science and Mathematics based: Calculus; Linear Algebra; Python Programming; Data Structure; JAVA Programming; Network Programming; Interface Technology; Databases; Software Engineering
- Half modules are Artificial Intelligence based: Introduction to Artificial Intelligence; Machine Learning; Computer Visions

Research project: ML for Cell Classification from Partial Information   Jul, 2023 – Present

Supervised by Dr Ivor Simpson

- Research project building Machine Learning models to segment, generate complete four-channel cell micrographs and classify the cycle phase from partial channels
- Fine-tuning CellPose, building VAE and CNN classifier in PyTorch

EMPLOYMENT HELD

Intern in AI R&D department | *Focus Technology Co., Ltd.*   Sept, 2021 – Jun, 2022
- ∗ Involving in image data cleaning, image classification, and object detection with Yolo
- ∗ Using image matting to refine the pixels of items edges to make the extracted item sharper
- ∗ Training CLIP models for Ali Tianchi's CVPR 2022 AliProducts Challenge for text-image retrieval

Intern in Data Analysis department | *Nanjing Maiyuchuang IT Co., Ltd*   Jun, 2021 – Aug, 2021
- ∗ Involving in the development of the opinion analysis system
- ∗ Crawling news with Scrapy and Pre-processing news data
- ∗ Training BERT to implement sentiment classification and text classification functions

SKILLS

- ∗ Proficiency in python, including machine learning libraries such as Numpy, Pandas, PyTorch, etc.
- ∗ Knowledge of essential machine learning, computer vision and natural language processing algorithms
- ∗ Ability to reproduce deep learning cutting edge literature
- ∗ Good foundation in mathematics
- ∗ Ability to read and write simple C and Java code