



Shenzhen, China

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Personal Profile_

A highly motivated **PhD candidate** jointly enrolled at the University of Birmingham (UoB) and Southern University of Science and Technology (SUSTech). Solid academic foundation in *Computer Science* and *Physics* with research endeavors primarily concentrated on *machine learning*, specifically in active learning and multi-domain learning. Strong ability to quick and independent learn, with a proven track record of delivering high-quality research outcomes. In-depth experience from multiple teaching assistantships in AI-related fields demonstrates solid presentation skills and knowledge-organization skills. Motivated by the rapid advancements in AI and its practical applications, and powered by a passion for problem-solving, the aim is to secure a challenging role that fully utilizes AI's capacity to confront and resolve significant real-world problems.

Education _

University of Birmingham (UoB)

PH.D. IN COMPUTER SCIENCE AND ENGINEERING (SUSTECH JOINT PROGRAM)

Birmingham, UK & Shenzhen, China

Sep. 2018 - Dec. 2023 (Expected)

- Supervisor: Ke Tang (SUSTech), Shan He (UoB)
- Research Fields: Active Learning, Multi-Domain Learning, Domain Adaptation, etc.
- · Thesis title: Multi-Domain Active Learning
- Crucial growth: Problem-Driven Thinking, Critical Thinking, Presentation Skill

Temple University Philadelphia, USA

SEMESTER EXCHANGE PROGRAM GPA:3.93/4

Aug. 2016 - Dec. 2016

- · Courses: Problem Solving and Programming with Python, Computing for Scientists, Atomic Nuclear & Partical Physics, etc.
- · Crucial growth: Overcoming the fear of the unfamiliar

Southern University of Science and Technology (SUSTech)

Shenzhen, China Sep. 2014 - July 2018

B.Sc. IN PHYSICS GPA:3.65/4

• Supervisor: Hu Xu, Haizhou Lu

- · Courses: Quantum Mechanics, Statistical Physics, Probability and Statistics, Data Structure and Analysis, etc.
- Outstanding Graduate in Shuren College
- · Crucial growth: Strong ability to learn independently and quickly

Skill

Soft Skills Problem-Oriented Thinking, Result-Oriented Mindset, Quick Learner with Knowledge Reorganization, Teaching Skills

Programming Python (PyTorch, Numpy, Matplotlib, Scikit-learn, etc.), Java, ŁTĘX

Large AI Models ChatGPT, OpenAl API

Development Hexo (static website generator), Git, Nginx + Tencent Cloud (web page deployment)

Languages Chinese (native language), English (business communication)

Publication

Multi-Domain Active Learning: Literature Review and Comparative Study, IEEE Transactions on Emerging Topics in 2022 Computational Intelligence (TETCI)

Multi-Domain Learning From Insufficient Annotations, (Submitted to ECAI 2023) 2023

2023 Perturbation-Based Two-Stage Multi-Domain Active Learning, (Submitted to CIKM 2023)

Large Language Models can be Guided to Evade Al-Generated Text Detection, (Submitted to NeurIPS 2023) 2023

Rui He · Résumé

Work Experience

Southern University of Science and Technology

Shenzhen, China

POSTGRADUATE TEACHING ASSISTANT - INTELLIGENT DATA ANALYSIS CSE5002 (SPRING SEMESTER EACH YEAR)

Jan. 2020 - PRESENT

- Deliver laboratory courses for graduate-level students.
- Responsible for designing laboratory materials (slides & codes), assignments and projects.
- Key personal growth: In-depth teaching skills, the ability to connect knowledge.

Southern University of Science and Technology

Shenzhen, China

POSTGRADUATE TEACHING ASSISTANT - ARTIFICIAL INTELLIGENCE CS303 (FALL SEMESTER EACH YEAR)

Sep. 2019 - Jan. 2022

- Conducting remote laboratory classes for an international undergraduate students.
- Responsible for preparing teaching materials for laboratory.
- · Key personal growth: Remote communication skills and technical support skills.

University of Birmingham

Birmingham, UK

POSTGRADUATE TEACHING ASSISTANT - DATA STRUCTURES AND ALGORITHMS

Feb. 2019 - June 2019

- Responsible for project guidance and coding assignment correction for undergraduate students.
- · Key personal growth: Communication skills.

University of Birmingham

Birmingham, UK

POSTGRADUATE TEACHING ASSISTANT - SOFTWARE WORKSHOP (JAVA)

Oct. 2018 - Dec 2018

- Deliver tutorial sessions and grade coding assignments for graduate students.
- Key personal growth: Demonstration skills in English, public presentation.

Project

Awesome Active Learning

Github Open-Source Repository

FOUNDER & WRITER

Feb. 2020 - PRESENT

- A well-structured active learning all-in-one knowledge library.
- Including taxonomy, papers, codes, and other resources.

Multi-Domain Active Learning: a Pipeline

Github Open-Source Repository

Founder & Developer

Jan. 2022 - Dec. 2022

• A general pipeline for multi-domain active learning (MDAL).

Others_

Certificate for CPR & AED

CHINESE RED CROSS SOCIETY - 中国红十字会

· Proficient in performing cardiopulmonary resuscitation (CPR) and using an automated external defibrillator (AED).

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