

Rui He

PHD CANDIDATE IN MACHINE LEARNING · UOB & SUSTECH

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Personal Profile

A highly motivated *PhD candidate* jointly enrolled at the University of Birmingham and SUSTech, with a strong focus on *machine learning*, specifically *active learning* and *multi-domain learning*. Excited about the progress of artificial intelligence and its practical applications. Actively pursuing a challenging position that leverages machine learning techniques to tackle real-world challenges.

Education

University of Birmingham (UoB)

Birmingham, UK

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

Sep. 2018 - Dec. 2023 (Expected)

- Research Fields: Active Learning, Multi-Domain Learning, Transfer Learning, etc.
- · Thesis title: Multi-Domain Active Learning

Temple University

Philadelphia, USA

SEMESTER EXCHANGE PROGRAM GPA:3.93/4

Aug. 2016 - Dec. 2016

· Courses: Problem Solving and Programming with Python, Computing for Scienctists, Atomic Nuclear & Partical Physics, etc.

Southern University of Science and Technology (SUSTech)

Shenzhen, China

B.S. IN PHYSICS GPA:3.65/4

Sep. 2014 - July 2018

- Thesis title: Research on Reactivity of the Surface of Bi_2Se_3 with O_2 and H_2O
- Outstanding Graduate in Shuren College

Work Experience

Southern University of Science and Technology

Shenzhen, China

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

Jan. 2020 - PRESENT

• Responsible for the preparation and teaching of Intelligent Data Analysis labs for graduate students.

Southern University of Science and Technology

Shenzhen, China

 $Artificial\ Intelligence - Postgraduate\ Teaching\ Assistant\ (Fall\ semester\ each\ year)$

Sep. 2019 - Jan. 2022

- Responsible for tutoring undergraduate artificial intelligence labs.
- Teach laboratory classes remotely to international students.

University of Birmingham

Birminaham, UK

POSTGRADUATE TEACHING ASSISTANT

Oct. 2018 - June 2019

- Demonstration of Software Workshop (Java) tutorials and correction of assignments for graduate student.
- Responsible for project guidance and assignment correction for undergraduate *Data Structures and Algorithms* course.

Publication

Multi-Domain Active Learning: Literature Review and Comparative Study, IEEE Transactions on

2022 Emerging Topics in Computational Intelligence (TETCI)

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

Skills.

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

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

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

Project.

Awesome Active Learning

Github Open-Source Repository

Founder & Writer

Feb. 2020 - PRESENT

· Everything about Active Learning (AL) research. Not only a curated list, but also a well-structured knowledge library.

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).

APRIL 14, 2023 RUI HE · RÉSUMÉ