

PhD Candidate in Machine Learning

Shenzhen, China

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# Personal Profile

A highly motivated **PhD candidate** jointly enrolled at the University of Birmingham 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. Inspired by the swift progress in AI and its tangible applications, seeking a demanding role that capitalizes on AI's potential to confront and solve critical real-world issues.

# **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
- · Crucial growth: Problem-Driven 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

B.Sc. IN PHYSICS GPA:3.65/4

Sep. 2014 - July 2018

- · 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

# **Publication**

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

Emerging Topics in Computational Intelligence (TETCI)

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

# Skills

2022

**Core Competence** Problem-Oriented Thinking, Result-Oriented Mindset, Quick Learner with Knowledge Reorganization

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

**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)

# Work Experience \_\_\_\_\_

#### Southern University of Science and Technology

Shenzhen, China Jan. 2020 - PRESENT

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

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

Key personal growth: In-depth teaching skills, the ability to connect knowledge.

MAY 18, 2023 Rui He · Résumé

## **Southern University of Science and Technology**

Shenzhen, China

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

Sep. 2019 - Jan. 2022

- Responsible for tutoring artificial intelligence labs for undergraduate students.
- Teach laboratory classes remotely to international students.
- · Key personal growth: Remote consistent communication and support.

## **University of Birmingham**

Birmingham, UK

Oct. 2018 - June 2019

POSTGRADUATE TEACHING ASSISTANT

- Demonstration of **Software Workshop (Java)** tutorials and correction of assignments for graduate students.
- Responsible for project guidance and assignment correction for undergraduate *Data Structures and Algorithms* course.
- Key personal growth: Demonstration skills in English, public presentation.

# **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).