

Qinze Yu

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No.4, Section 2, North Jianshe Road, Chengdu, Sichuan, 610054, China

EDUCATION

University of Electronic Science and Technology of China (UESTC) 09/2018-Present

- Bachelor of Engineering in Software Engineering
- Current GPA: 3.97/4.00

Dalhousie University 07/2019-08/2019

- Summer English in Canada Program
- Courses: ESL Communication (A+) , Web Development (A+)

ACADEMIC EXPERIENCES

Research Projects at the Chinese University of Hong Kong

AMP Prediction via Deep Learning 06/2021-Present

Project Leader, Supervised by Assistant Prof. Yu Li

- Developed a hierarchical model to predict the biological activity of AMP using the tensorflow deep learning framework
- Applied the model to the 20 new proteins synthesized in the article *Accelerated Antimicrobial Discovery via Deep Generative Models and Molecular Dynamics Simulations*, and accurately identified the biological activity of proteins.

ARG Health Risk Prediction via Deep Learning 08/2021-Present

Project Leader, Supervised by Assistant Prof. Yu Li

- Developed a deep learning model to predict ARG health risks using the tensorflow deep learning framework

Research Projects at UESTC

Improvement the Performance of Session-Based Recommendation System 03/2021-07/2021

Supervised by Associate Prof. Xucheng Luo

- Used Graph-BERT for Pretraining
- Improved and utilized K-BERT to distinguish sessions
- Added chronological considerations to the sessions

Development of Go-Wallet Cross-Border Payment Application 10/2019-06/2020

ANZ & UESTC Joint Laboratory Program

Leader of 5-Member Team; Supervised by Associate Prof. Zhenhao Li

- Constructed the front-end and back-end network communication frameworks
- Developed the function of adding and deleting cards in the wallet, user information page, and login interface

PUBLICATIONS

[J] JOURNAL [P] CONFERENCE PROCEEDINGS [W] WORKING PAPER [S] UNDER REVIEW

- [S2] Q. Yu, Z. Dong, X. Fan, L. Zong, Y. Li, “HMD-AMP: Protein Language-Powered Hierarchical Multi-label Deep Forest for Annotating Antimicrobial Peptides” Submitted to: *26th Int. Conference on Research in Computational Molecular Biology* (ReCOMB 2022)
- [P1] H.Li, X.Luo, **Q.Yu**, H.Wang, “Session-based Recommendation Via Contrastive Learning On Heterogeneous Graph” Accepted to *The 7th IEEE International Conference on Big Data Computing Service and Machine*(IEEE BigData2021)

ACTIVITIES

- Senior Monitor of Class 8, Grade 2020** 09/2020-07/2021
- Provided guidance for the freshmen to help them familiarize with university life and study, and adapt to the new environment better and faster
- Monitor of SE Class 8, Grade 2018** 09/2018-06/2019
- Took charge of the class daily management, and organization of various activities such as UESTC Forum, Excellent Class Defense, etc.
- Member of the University Youth Volunteers Association** 09/2018-09/2019
- Planned and organized various volunteer activities
- Outstanding Student of the Second UESTC Ginkgo Program** 05/2019-06/2019
- Provided etiquette, first aid, and psychological training for volunteers

HONORS & AWARDS

- Honorable Mention of Mathematical Contest in Modeling 02/2021
- Provincial First Prize of Contemporary Undergraduate Mathematical Contest in Modeling 09/2020
- National Scholarship (TOP 2%) 11/2019
- Outstanding Student Scholarship of UESTC (TOP 10%) 11/2019

OTHER INFORMATION

Technical Skills: Computer programming languages (C, Python, Flutter); Linux platform knowledge; experiences in front-end development and embedded system design; Database (MySQL, MongoDB)

English Proficiency: TOEFL (101); GRE (326)