Jiawei Zhang

Phone: (+86)18920816307 | Email: jiawei_zhang1@163.com

EDUCATION

CIVIL AVIATION UNIVERSITY OF CHINA

Tianjin, China

Faculty of Economics and Management, Bachelor of Business Administration — *Sep. 2016 – Jul. 2020*

GPA: 3.67/4.0 (85.4/100)

Key courses: Advanced Mathematics/92 (89+95); Probability-and-Statistics/80; Business Statistics and Forecasting/89

RESEARCH EXPERIENCES

PREDICTING TCR-PMHC BINDING USING DEEP LEARNING

Fresh Wind Biotechnologies Inc. Tianjin, China

Research Assistant — *Apr. 2022 – Apr. 2024*

- Project content: Predicting the binding of TCR peptide-MHC-1 complexes by BERT-based deep learning model with transfer learning.
- Main responsibilities: Data collection and organization; Modification of model structure; Code writing and Github repository creation; Model training and testing; Writing of the paper
- Results: Completed paper as the first author: “Accurate TCR-pMHC Interaction Prediction Using a BERT-based Transfer Learning Method”. (Published in ***Briefings in Bioinformatics*** if=9.5)
- Open-source address: https://github.com/Freshwind-Bioinformatics/TABR-BERT

IDENTIFYING NEOANTIGENS USING DEEP LEARNING

Fresh Wind Biotechnologies Inc. Tianjin, China

Research Assistant — *Apr. 2022 – Apr. 2024*

- Project content: Accurate identification of neoantigens by multi-task learning architecture with LSTM as the feature extractor.
- Main responsibilities: Data collection and organization; Assist in Github repository creation; Assist in model testing; Assist in writing of the paper
- Results: Completed paper as the second author: “Neo-MUST: an Accurate and Efficient Multi-Task Learning Model for Neoantigen Presentation”. (Published in ***Life Science Alliance*** if=4.4)
- Open-source address: https://github.com/Freshwind-Bioinformatics/NeoMUST

AIR TRAVELERS DEMAND CLUSTERING AND MULTI-SERVICE PRODUCT PACKAGING DESIGN

Civil Aviation University of China Tianjin, China

National Innovation and Entrepreneurship Project /Team member — Oct. 2017 – Jun. 2019

- Project content: Using the K-means clustering method, travelers within a certain range of people were segmented and different product combinations were designed for them.
- Main responsibilities: Implement the k-means algorithm and write the corresponding part of the paper.
- Results: Published two papers in Chinese journals.

ACTIVITY

Director of the Communication Club of the Student Union of the University
School Library, Kindergarten Outstanding Volunteer
Summer Social Practice Advanced Individual

SKILLS AND OTHERS

Skills: Python, Liunx, Docker, R
Interest: Photography, Reading, Go