MS in Biostatistics (University of Michigan ID # 51951344)

Resume-Zirui Zhang

+86 173 9680 8281 ZZRshenqing2021@163.com

Room 601, building 47, No. 8, Zhishan Road, Jiangning District, Nanjing, 211100, China

EDUCATION

China Pharmaceutical University Nanjing, China
Bachelor of Science, Major in Pharmacy *Sept.2018-Jun.2022*
GPA: 3.71/4.0 (WES verified)
Relevant Courses: Advanced Mathematics (I: 89, II: 94), Mathematical Statistics (95), Programming language (81), Biochemistry and Molecular Biology (91), Introduction to Clinical Medicine (87), Pharmacology (89), etc.

University of California San Diego Online
Summer Session of Linear Algebra *Summer 2021*

RESEARCH EXPERIENCE

Research on Design Methods of Phase II Clinical Trial——Based on PALM Trial Nanjing, China
Principal Investigator: Prof. Fangrong Yan *Aug.2021-Now*
Project: To simulate classic multi-stage design methods based on PALM trial data and evaluate main endpoint indication methods
Position: Research Assistant
- Coded relevant calculation program with R and carried out the corresponding statistical calculation simulation
- Compared several statistical and design methods used in clinical phase II trial to explore the strengths and weaknesses and best applicable conditions of each method

Research on the Treatment of Liver Hydatidosis with Traditional Chinese Medicine Nanjing, China
Principal Investigator: Prof. Caolong Li *Jun.2019-Dec.2019*
Project 1: Identification of new drug lead compounds against hepatic echinococcosis from Rabdosia and Dauricus
Position: Research Assistant
- Collected and sorted information on properties and extraction methods of Rabdosia and Dauricus
- Extracted and separated components from Rabdosia and Dauricus by methods of organic solvent extraction, acid extraction, silica gel column chromatography etc.

Project 2: Extraction and separation of anti-liver cancer components from Beidougen and Leiwan and assessment of their anti-tumor activity on HepG2 cells in vitro *Dec.2019-Now*
Position: Project Leader
- Organized the team to review literature and design experimental procedure
- Extracted and identified 12 compounds BDG-1~12 from Beidougen via decoction, acid extraction, chromatography, NMR etc.
- Obtained crude Leiwan proteases from three different grain sizes of Leiwan powder with successful extraction of 2 unique proteases
- Identified 2 potential anti-liver cancer components so far, with ongoing identification of new components
- The Project been selected for honors by the *Provincial College Students' Innovative Entrepreneurial Training Program* and *College Students' 'Internet+' Innovation and Entrepreneurship Program*

EXTRACURRICULAR ACTIVITIES

Campus Online Flower Shop Nanjing, China
Co-founder *Sept.2019-Jun.2020*
- In charge of on-line business: maintained official WeChat groups, launched flower lists weekly, published promotion activities monthly
- In charge of off-line services: purchased, maintained and arranged flowers, delivered bouquets

Nanjing Xueersi Nanjing, China

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Teaching Assistant   *Fall 2019 & Winter 2020*
- Assisted in teaching English and Physics and recorded students' performance in class
- Provided feedbacks on students' assignments and test papers after class

ACHIEVEMENTS/AWARDS
- Competition: 2nd Tier of C Class in National English Competition for College Students 2021
- Honor: Outstanding Students Award for 2018-2019 Academic Year
- Award: 3rd Tier Outstanding Student Scholarship for 2020-2021 Academic Year
    2nd Tier Outstanding Student Scholarship for 2019-2020 Academic Year
    3rd Tier Outstanding Student Scholarship for 2018-2019 Academic Year

SKILLS
Software: R, Python, MATLAB, Visual Basic, SPSS, Origin, Microsoft Office
Languages: Native in Mandarin Chinese, Proficient in English