Gaotong (Gloria) Liu

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SUMMARY

A first year Biostatistics MS student with advanced statistics and survival analysis knowledge and R experience. Background in biomedical and biochemical research institute seeks summer internship in pharmaceuticals.

EDUCATION

Columbia University, Mailman School of Public Health   New York, NY
Master of Science (MS) in Biostatistics, (Theory and Methods track), Cumulative GPA: 4.1   Expected May 2021
- Related courses: Data Science(A), Biostatistical Methods(A_+), SQL, SAS

The University of Hong Kong, Visiting Program   Hong Kong
- Related courses: Marketing analytics, Statistical inference and Python programming   Sep - Dec 2018

The Hong Kong Polytechnic University   Hong Kong
Bachelor of Science (BS) in Applied Biology with Biotechnology, GPA: 3.94/4.0   May 2018
- First Class Honors

The University of Queensland, Exchange Program   Brisbane, Australia
- Related courses: Genomics & Bioinformatics and Biostatistics   Jan - Jun 2017

RELEVANT RESEARCH EXPERIENCE

The University of Hong Kong   Hong Kong
Market Research Assistant, Dr. Kwan CW's supervision*, STAT 3613 Marketing analytics*   Sep - Dec 2018
- Developed hands-on skills of marketing decision models including cluster analysis, factor analysis, multidimensional scaling, correspondence analysis, conjoint analysis, choice models, and discriminant analysis using R packages to predict product market size, and profit

Shenzhen Institutes of Advanced Technology, CAS   Shenzhen, China
Research Intern, Dr. Yin Peng's group, Research Center for Biomedical Information Technology   Aug 2018
- Effectively analyzed gene expression data by differential expression analysis and GO, KEGG enrichment analysis using R packages to investigate the effectiveness of drug
- Studied R, Python programming and various algorithms applied to GWAS, TWAS

The Hong Kong Polytechnic University, Department of Applied Biology and Chemical Technology   Hong Kong
Final Year Student/Student Assistant, Prof. Wong Man sau's group   Feb 2016 – May 2018
- Efficiently used bioinformatical tool based on R to analyze RNA-sequencing data, mainly using differential and enrichment analysis and narrowed down to 20 targets for research of Icariin's effect on osteoporosis
- Investigated molecular mechanisms of the Icariin's effect on apoptosis and cell proliferation of osteoblast using techniques such as flow cytometry, Real-time PCR, cell culture (MC3T3-E1), MTS assay, Western Blot

PROFESSIONAL EXPERIENCE

Shanghai Institute for Biological Sciences, CAS   Shanghai, China
Research Intern, Prof. Hu Ronggui's group, Institute of Biochemistry and Cell Biology   Jun-Aug 2016/Jul-Aug 2017
- Obtained the chemicals which can influence E3 ubiquitin-protein ligase in the retinoic acid signal transduction with a statistical significance, using immunoblotting, immunoprecipitation and DNA cloning
- Accurately followed research protocols and conducted high-throughput screening of drugsß on retinoic acid signal transduction by the dual-luciferase reporter assay

VOLUNTEER LEADERSHIP

Group Leader, **Orientation Program,** The Hong Kong Polytechnic University, Hong Kong   Aug 2015
Activity Coordinator, **Education Voluntary Service,** University Community, Hong Kong   May 2015

SKILLS

Languages: Native in Mandarin, Elementary in Japanese, Basic in Cantonese
Computer Skills: Proficient in Microsoft Office (Word, Excel and Power Point), and R, also knowledge of Python, SQL, SAS and Machine Learning