

Yuezhe Li

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Relevant Work Experience

Metrum Research Group

Tariffville, CT

Research Intern

September 2020 – current

- Predicted outcomes of a COVID-19 treatment; developed a quantitative system pharmacology (QSP) model for COVID-19 infection

University of Connecticut Health Center

Farmington, CT

Ph.D. Graduate researcher

September 2016 – current

- Improved cancer drug targeting by increasing the precision of related reverse engineering algorithms by 30%; developed a benchmark to identify a suitable discretization method
- Explored causes of diabetes by elucidating the molecular mechanisms on how ciliopathy (a group of rare diseases) leads to diabetes; established ciliary insulin receptor signaling suppresses glucose-stimulated insulin secretion

National Center for Supercomputing Application

Urbana, IL

Blue Waters Student Intern

May 2015 – May 2016

- Improved non-verbal communication in time-sensitive competitive sports; built a user-friendly interactive tool to monitor brain states in real-time with a research group at the University of Houston (1 patent pending)
- Provided better meditation monitoring for stress reduction; increased the precision of machine learning models that classify brain states by 30% through combining multiple models and adaptive training

Athletics Department, Illinois State University

Normal, IL

Data Analyst

May 2015 – August 2015

- Increased projected revenue by 20%; optimized ticket prices for football games using multivariate optimization, logistics regression, and neural networks
- Decreased revenue prediction time by a factor of 10; built a predictive neural network tool in Excel

Leadership and Extracurricular

Yale Graduate Consulting Club

New Haven, CT

Pro Bono Consultant

February 2021 - May 2021

- Conduct market analysis for a local biotech startup; conduct Voice of Customers (VOC) research by interviewing key opinion leaders in proteomics research in collaboration with a team of 5

Impact Consulting

London, UK

Pro Bono Consultant

January 2021 - May 2021

- Conducted market analysis and identified an addressable market for a university startup based in Austria in collaboration with a team of 5

Education

University of Connecticut

Farmington, CT

Ph.D., Biomedical Science (GPA 3.9/4.0)

2016 – 2021

- Business Foundations (Wharton Online), Business Analytics Nanodegree (Udacity), Biomedical Entrepreneurship (A-, class jointly offered by Engineering and Business Schools)
- Team lead, Casebook Competition hosted by Yale Graduate Consulting Club (3rd place)

Illinois State University

Normal, IL

MS, Mathematics (GPA 3.9/4.0)

2014 – 2016

- Taught and tutored 100-300 students in college algebra & statistics classes; supervised fellow graduate assistant teacher

Huazhong University of Science and Technology

Wuhan, China

BS, Statistics (GPA 3.6/4.0)

2010 – 2014

- Innovation Scholarship (top 5% of the university), Fellow at Center for Mathematical Modeling (top 5% of the university), Silver Medal from an international synthetic biology contest with 500+ participants

Skills & Interests

- **Relevant Skills:** Microsoft Office, R, Python, SAS, SPSS, SQL, Tableau; Chinese (native)
- **Interests:** Reading - Medieval European & East Asia history; Writing – Scientific writing, classical Chinese poetry