NANCY LU

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EDUCATION

YALE UNIVERSITY
BS IN STATISTICS/DATA SCIENCE & BIOLOGY, 3.97/4.00
Focus on computational biology techniques to solve genomic problems
Grad May 2020 | New Haven, CT

MT. LEBANON HIGH SCHOOL
PA Governor's School for the Sciences
Class of 2015
Grad June 2016 | Pittsburgh, PA

INTERESTS

Computational biology • biostatistics • probability theory and modeling • global health • epidemiology • science writing

COURSEWORK

UNDERGRADUATE
Biomedical Data Science
Linear Algebra
Probability Theory
Multivariable Calculus (TA)
Data Analysis
Molecular Biology
Biochemistry
Organic Chemistry (I & II)
Physics (I & II)
Model Organisms
Independent Research

SKILLS/OTHER

SOFTWARE
Java • Python • R • HTML • LATEX

LAB
Molecular cloning • flow cytometry • Western blot • PCR/Gibson assembly• heat shock transformation • MAGE

OTHER
• Expected EMT license (2018)
• Dwight Hall Board Member
• USA Math Talent Search Gold Medal
• USA Chem Olympiad Top 20 in US
• USA Math Olympiad Qualifier
• MIT Math Prize Bronze Medal
• Unanimously elected as Mt. Lebanon Junior Commissioner (2016)
• Hobbies: Running, Piano

RESEARCH

YALE UNIVERSITY | UNDERGRAD RESEARCHER
Jan 2018 – Present | New Haven, CT
Working with Dr. Anna Pyle to use computational methods to determine RNA base pair covariation across species and develop better 3D models of RNA secondary structure

MAGEE WOMENS RESEARCH INSTITUTE | RESEARCHER
Mar 2016 – present | Pittsburgh, PA
Research under Dr. Faina Linkov involving study of trauma, obesity, and surgical outcomes. First-author paper published in *Bariatric Surgical Practice and Patient Care*. Presented at Magee-Womens Research Conference.

YALE iGEM Team | UNDERGRAD RESEARCHER
June 2017 – present | New Haven, CT
Engineered a pathway to degrade PET and MHET plastic in *E. coli* in a 6-person undergraduate team that will compete in international competition for genomics.

YALE NEUROSCIENCE LAB | UNDERGRAD RESEARCHER
Mar 2016 – Jan 2017 | New Haven, CT
Research under Dr. Dylan Gee to analyze MRI dTI imaging of frontoamygdala circuity to study safety signaling in adolescents

EXPERIENCE

BIOTECHNIQUES | EDITORIAL INTERN
July 2018 - present | New York City, NY
• Write scientific news articles monthly

YALE-CHINA ASSOCIATION | INTERN
June 2017 - Aug 2017 | New Haven & Hong Kong
• Taught classes at New Life, a psychiatric rehabilitation center, in HK
• Volunteered at Marrakech, which helps people with disabilities

CARNEGIE MELLON CYBERSECURITY LAB | PROGRAMMER
June 2016 - Aug 2016 | Pittsburgh, PA
• Solved an optimization problem with a linear programming kit with Django

AWARDS/HONORS

2018	2nd - $500	William F. Buckley Jr. Essay Contest
2018	Fellowship	Effective Altruism Fellowship
2018	3rd - $200	Yale Acheson Prize in International Relations
2017	Fellowship	Yale-China Fellowship in Hong Kong
2017	Fellowship	Yale Freshman Science and Engineering Fellowship
2017	Presenter	Association for Psychological Science Conference
2016	Award	MathCounts Alumni Award Finalist

OTHER ACTIVITIES

2018	Editor in Chief	Yale Global Health Review
2017	Director of Finance	Hypertension Prevention Program
2016	Volunteer	Yale New Haven Hospital