

NANCY LU

NancyLu799.github.io | nancy.lu@yale.edu | 412.218.6500

EDUCATION

YALE UNIVERSITY

BS IN STATISTICS/DATA SCIENCE & BIOLOGY, 3.96/4.00

Focus on computational biology techniques to solve genomics 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

Computational Vision

Linear Models

Linear Algebra (TA)

Probability Theory (TA)

Multivariable Calculus (TA)

Data Analysis

Molecular Biology

Biochemistry

Organic Chemistry (I & II)

Model Organisms

Independent Research

SKILLS/OTHER

SOFTWARE

C/C++ • Python • R • HTML • LATEX

LAB

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

OTHER

- CT EMT license 24505
- Dwight Hall Board Member
- USA Math Talent Search Gold Medal
- USA Chem Olympiad Top 40 in US
- USA Math Olympiad Qualifier
- MIT Math Prize Bronze Medal
- Mt. Lebanon Jr Commissioner (2016)
- Hobbies: Running, Piano

RESEARCH

YALE UNIVERSITY | UNDERGRAD RESEARCHER

Aug 2019 – Present | New Haven, CT | 203.432.6105

Working with Dr. Mark Gerstein & Dr. Gamze Gursoy to examine linkage attacks on genome databases, including the 1000 Genomes Project and gEUVADIS.

COHEN CHILDREN'S RESEARCH CENTER | RESEARCHER

May 2019 – Aug 2019 | New Hyde Park, NY | 516.802.6100

Research under Dr. Adesman to study electronic vapor products and other various adolescent medicine topics.

MAGEE WOMENS RESEARCH INSTITUTE | RESEARCHER

Mar 2016 – May 2019 | Pittsburgh, PA | 412.641.2501

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 | 203.737.3156

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.

PUBLICATIONS

Hong, S., **Lu, N.**, Wu, D., Jimenez, D. E., & Milanaik, R. L. (2019). Digital sextortion: Internet predators and pediatric interventions. *Curr Opin Pediatr*. doi:10.1097/mop.0000000000000854

Lu, N., Adambekov, S., Edwards, R. P, et al. (2019). Relationships Between a History of Abuse, Changes in Body Mass Index, Physical Health, and Self-Reported Depression in Female Bariatric Surgery Patients. *Bariatr Surg Pract Patient Care*, 14(3), 113-119. doi:10.1089/bari.2018.0051

AWARDS/HONORS

2019	Fellowship	Yale Richter Fellowship (for summer research)
2018	2 nd - \$500	William F. Buckley Jr. Essay Contest
2018	Fellowship	Effective Altruism Fellowship
2018	3 rd - \$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

2019	Volunteer (Medical Debt Dpt)	HAVEN Free Clinic
2018	Editor in Chief	Yale Global Health Review
2017	Director of Finance	Hypertension Prevention Program
2016	Volunteer	Yale New Haven Hospital