

# NANCY LU

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## 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 <sup>nd</sup> - \$500 | William F. Buckley Jr. Essay Contest             |
| 2018 | Fellowship              | Effective Altruism Fellowship                    |
| 2018 | 3 <sup>rd</sup> - \$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         |