

ADELINE SHIN

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EDUCATION

Columbia Mailman School of Public Health, New York, NY

M.S. Candidate in Biostatistics

2019–2021

(Anticipated)

Carnegie Mellon University (CMU), Pittsburgh, PA

2015–2019

B.S. in Chemical Engineering with University Honors

Additional Major in Biomedical Engineering, Minor in Drama

GPA: 3.52/4.00

EMPLOYMENT AND EXPERIENCE

New York City Department of Health and Mental Hygiene

June–Aug 2018

H RTP Intern, Division of Informatics IT

- Analyzed and condensed NPI data warehouse of 50 million rows for widespread, transparent use within entire agency
- Programmed stored procedure using Microsoft SQL to update NPI database weekly

Eli Lilly and Company, San Diego, CA

Academic Intern, Protein Purification

June–Aug 2017

- Investigated new purification scheme nominated as one of Eli Lilly's Top 100 Innovations of 2017; to be published with co-authorship

Academic Intern, Protein Crystallization

May–Aug 2016

- Applied high-throughput crystallization of proteins to multiple projects, leading to discovery of 2 unique protein structures

University of Pittsburgh Medical Center

Sept 2015–March 2016

- Aided patients in Emergency Department by offering supplies that might benefit their stay

PROJECTS

Medtronic Scoliosis Simulator: Partnered with Medtronic spine team to design scoliotic model with mechanical and anatomical accuracy; model is to be further developed by R&D engineers to test surgical instruments and techniques, improving overall surgical outcomes

ChocLine Printer: Optimized flow parameters to improve 3D-printing of chocolate, designed 3D-printer for chocolate based on thermodynamic and rheological properties

LEADERSHIP

Society of Women Engineers (SWE) Mentoring Chair (2018–2019): Connected over 90 mentors and mentees as CMU SWE's Mentoring Chair, strategized for increased attendance of events, organized and hosted events related to personal and professional development

Phi Delta Theta: Head Driver for CMU's newest buggy team, mentored new driver and took initiative in assisting with mechanics

American Institute for Chemical Engineers Class Representative (2016–2017): Planned internal social events as and external outreach programming for Chemical Engineers at CMU

SKILLS AND EXPERTISE

Programming: R, Microsoft SQL, MATLAB, ASPEN Plus, CAD (SolidWorks, Fusion 360), Microsoft Office Suite, Python, GIMP, GAMS

Technical: 3D-Printing, Engineering Manufacturing and Prototyping, Laser Cutting, User Experience Design

Languages: English, Conversational Mandarin