

## Naomi Ross

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### Education

Temple University, College of Science and Technology, Philadelphia, PA      Graduated May 2023  
**BS in Biophysics, Minor in Chemistry**  
Notre Dame Biophysics PhD Program      (starting Fall 2024)

### Notable Coursework

Cell Structure and Function	Genetics (+lab)	Biostatistics (+ R coding lab)
Organic Chemistry 1 & 2 (+ lab)	Physical Chemistry 2	Applications of Biochemistry
Calculus 1, 2 and 3	Linear Algebra	Mathematical Physics (+ lab)
Intro to Modern Physics (+ lab)	Electricity and Magnetism	Intro to Quantum Mechanics
Thermal Physics		

### Software and Programming Skills

Microsoft Office	Python (programming language)	R (programming language)
Microsoft Office	Fusion 360 (3D modeling)	MCCE (titration simulation software)

### Research Experience

Eric Borguet Lab at Temple University      2021-2023

- Nonlinear Optics research group using sum-frequency generation to study interfacial interactions
- Contact angle measurement and analysis of alumina surfaces using water of different pH values
  - Ruiyu Wang, Yunqian Zou, Richard C. Remsing, Naomi O. Ross, Michael L. Klein, Vincenzo Carnevale, Eric Borguet. *Superhydrophilicity of  $\alpha$ -Alumina Surfaces Results From Tight Binding of Interfacial Waters to Specific Aluminols*. Journal of Colloid and Interface Science, Volume 628, Part A, 2022, Pages 943-954, ISSN 0021-9797. <https://doi.org/10.1016/>.
- Developing a simplified setup of dynamic contact angle measurements
  - Paper in review: Yunqian Zou, Naomi Ross, Eric Borguet. *Simplified Approach for Dynamic Contact Angle Measurements*.

Marilyn Gunner Lab at City College of New York      Summer 2022

- B3 REU program for City College of New York
- Ran titration simulations on MCCE software and helped establish new baseline

MARC Scholar Recipient      2021-2023

- Undergraduate research program with scholarship and stipend for 2 years of mentored research in biomedically related fields
- Graduate school preparation and personal development workshops

### Community Involvement

Owls for Justice, Temple University      2020-2022

- Student athlete led organization focused on equity and diversity
- Community Outreach Leader, Administrative Coordinator, and Fencing Team Representative

### Athletics

Division 1 NCAA Fencing, Temple University      2019-2023

- NCAA Championship Qualifier for 2019-2020 and 2021-2022 seasons
- Team captain      2021-2022, 2022-2023

Member of the US Senior National Team for Modern Pentathlon      2021-2022

- Identified as an Elite Athlete by the US Olympic Committee      2019-2023