

Anne C. Leonhard | Ph.D. Student Researcher

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Education

University of Notre Dame

Ph.D. in Chemical Engineering, 3.7

Advisor: Dr. Jonathan Whitmer

Notre Dame, IN

Expected: May 2022

Rose-Hulman Institute of Technology

Bachelor of Science in Chemical Engineering and Computational Science, 3.7

Minor in Computer Science

Terre Haute, IN

May 2017

Professional Experience

University of Notre Dame

Graduate Research Assistant

Notre Dame, IN

2017–present

Vanderbilt University

NSF-REU Researcher

Nashville, TN

2016

University of Pittsburgh

NSF-REU Researcher

Pittsburgh, PA

2015

Publications

Journal Publications

- "Accurate Determination of Cavitand Binding Free Energies via Unrestrained Advanced Sampling," Anne C. Leonhard and Jonathan K. Whitmer. In review.
- "Molecular dynamics simulations of stratum corneum lipid mixtures: A multiscale perspective," Timothy C. Moore, Christopher R. Iacovella, Anne C. Leonhard, Annette L. Bunge, and Clare McCabe. *Biochemical and Biophysical Research Communications* 498(2), 313-318 (2018).

Contributed Talks

- "Understanding Binding Dynamics in Host-Guest Systems with Advanced Sampling Simulations," Anne C. Leonhard and Jonathan K. Whitmer. APS March Meeting, Boston, MA, March 2019.

Posters

- "Coarse-grained simulations of the self-assembly of skin-relevant lipid structures," Anne C. Leonhard, Timothy C. Moore, and Clare McCabe. AIChE Fall Meeting, San Francisco, CA, November 2016.
- "A mathematical model of heparin-induced thrombocytopenia," Anne C. Leonhard, Robert S. Parker, and Gilles Clermont. AIChE Fall Meeting, Salt Lake City, UT, November 2015.

Honors and Awards

- 2019 NSF-GRFP Recipient
- 2017 Notebaert Fellowship, University of Notre Dame

- 2016 Dunlap Scholarship, Rose-Hulman Institute of Technology
- 2016 Goldwater Scholarship Honorable Mention

Leadership

Association for Women in Science (AWIS), University of Notre Dame.....

2018-present: Chemical Engineering Department Representative

Alpha Chi Sigma Professional Chemistry Fraternity, Rose-Hulman Institute of Technology.....

2016-2017: Treasurer

2015-2016: Webmaster

2014-2015: Professional Activities Co-Chair

Omega Chi Epsilon Chemical Engineering Honor Society, Rose-Hulman Institute of Technology..

2016-2017: President

2015-2016: Treasurer

Other Involvement.....

2017-present: Graduate Society of Women Engineers (GradSWE), University of Notre Dame

2017-present: CBE Graduate Student Organization (CBEGSO), University of Notre Dame

Professional Membership

- American Institute of Chemical Engineers (AIChE)
- Alpha Chi Sigma

Teaching Experience

University of Notre Dame
Graduate Teaching Assistant

Notre Dame, IN
2017-2019

Rose-Hulman Institute of Technology
Undergraduate Grading Assistant

Terre Haute, IN
2014-2017