

# Erik Nordquist

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## Education

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- | **PhD Chemistry**, University of Massachusetts Amherst
- 2018 | **B.Sc. Chemistry and Math-Physics**, The College of Idaho

## Fellowships and Awards

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- 2020 – 2021 | **Chemistry-Biology Interface (CBI) Fellowship**  
Funded Traineeship (NIH and UMass)

## Publications

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- 2021 | 1. **Nordquist, E. et al.** Physics-Based Modeling Provides Predictive Understanding of Selectively Promiscuous Substrate Binding by Hsp70 Chaperones. *PLOS Computational Biology* (2021).
- 2020 | 2. Gong, X. et al. Accelerating the Generalized Born with Molecular Volume and Solvent Accessible Surface Area Implicit Solvent Model Using Graphics Processing Units. *Journal of Computational Chemistry* (2020).

## Teaching

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- 2020 | **Grad. Level Stat Mech Lecture**, Intro to Molecular Mechanics
- 2018 – 2019 | **Gen. Chem. Lab TA**
- 2019 – 2021 | **Undergrad. Mentoring**: Callie Jillson, Samantha Schultz

## Speaking and Activities

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- 2020 | **Northeastern Structural Symposium Research Talk**  
Talk Title: Physical Origins of Selective Promiscuity to Hsp70s Revealed Through Physics-Based Modeling
- 2019 | **Molecular Biophysics in the Northeast**  
Poster Title: Understanding the Origins of DnaK's Selective Promiscuity with Physics-based Modeling
- 2019 | **OpenACC GPU Hackathon at MIT**  
Parallelizing implementation of Implicit Solvent Model GBMV2/SA
- 2019–2021 | **ResearchFest Poster Session**  
W.E. McEwen Poster Prize winner, 2020; Title: Physical Origins of Selective Promiscuity to Hsp70s Revealed Through Physics-Based Modeling

## Service and Outreach

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2021 | **Search Committee for Grad Program Director**

2021 – | **Journal for Emerging Investigators**, Reviewer  
Reviewed six articles to-date for high school- and middle school-aged students

2020 | **CBI Alumni Networking Event**, Co-Organizer

2019 – 2021 | **Annual Chem Dept ResearchFest**, Co-Organizer