Erik Nordquist

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Education

– | **PhD Chemistry**, University of Massachusetts Amherst

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

Fellowships and Awards

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

Publications

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

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

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

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