

RESEARCHER · DEVELOPER

Seattle, WA

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## **Education**

#### **University of Washington**

Ph.D. IN CHEMISTRY
Advisor: Prof. Xiaosong Li

Seattle, WA Sept. 2016-Current

GPA: 3.88

Walla Walla, WA

B.A. IN CHEMISTRY WITH HONORS, MINOR IN MATHEMATICS ADVISOR: PROF. NATHAN E. BOLAND GPA: 3.59

Aug. 2012 - May 2016

## Honors & Awards

2019 Gudiksen, Paul H. and Karen S. Merit Fellowship, University of Washington, Chemistry Dept.

2019 Best Poster Award, Northwest Theoretical and Computational Chemistry Conference

2018 Honorable Mention, NSF GRFP

2017-2018 CEI Graduate Fellowship, University of Washington, Clean Energy Institute

2017-2018 DIRECT NSF NRT Traineeship, University of Washington, Clean Energy Institute

2017 **Graduate Fellowship**, Pacific Northwest National Lab

2016 Exceptional Achievement in Chemistry, Whitman College, Chemistry Dept.

2014-2015 Perry Research Grant, Whitman College

## **Publications**

- 6. Williams-Young, D. B.; Petrone, A.; Sun, S.; Stetina, T. F.; Lestrange, P.; Hoyer, C. E.; Nascimento, D. R.; Koulias, L.; Wildman, A.; Kasper, J. M.; Goings, J. J.; Ding, F.; DePrince III, A. E.; Valeev, E. F.; Li, X. The Chronus Quantum (ChronusQ) Software Package. WIREs Comput. Mol. Sci, 2019, Just Accepted.
- 5. Clark, A. E.; Servis, M. J.; Liu, Z.; Martinez-Baez, E.; Su, J.; Batista, E. R.; Yang, P.; **Wildman, A.**; Stetina, T.; Li, X.; Newcomb, K.; Maginn, E. J.; Autschbach, J.; Dixon, D. A. Solvent Extraction through the Lens of Advanced Modeling and Simulation. *Ion Exchange and Solvent Extraction*, 2019, 23, Chapter 5. DOI: 10.1201/9781315114378
- 4. Liu, H.; Jenkins, A.J.; **Wildman, A.**; Frisch, M.J.; Lipparini, F.; Mennucci, B.; Li, X. Time-Dependent Complete Active Space Embedded in a Polarizable Force Field. *J. Chem. Theory Comput.*, 2019, 15. DOI: 10.1021/acs.jctc.8b01152
- 3. **Wildman, A.**; Donati, G.; Lipparini, F.; Mennucci, B.; Li, X. Nonequilibrium Environment Dynamics in a Frequency-Dependent Polarizable Embedding Model, *J. Chem. Theory Comput.* 2018, 15. DOI: 10.1021/acs.jctc.8b00836
- 2. **Wildman, A.**; Martinez-Baez, E.; Clark, A.; Li, X. Anticorrelated contributions to pre-edge features of aluminate near-edge X-ray absorption spectroscopy in concentrated electrolytes, *J. Phys. Chem. Lett.*, 2018, 9. DOI: 10.1021/acs.jpclett.8b00642
- Donati, G.\*; Wildman, A.\*; Caprasecca, S; Lingerfelt, D.B.; Lipparini, F.; Mennucci, B.; Li, X., Coupling Real-Time Time Dependent Density Functional Theory with Polarizable Force Field, J. Phys. Chem. Lett., 2017, 8. DOI: 10.1021/acs.jpclett.7b02320.
   \*Co-First Authors

## Presentations \_\_

Jul. 2019 Wildman, A.; Dembowski, M.; Graham, T. R.; Martinez Baez, E.; Gorniak, R. M.; Pouvreau, M. J.; Prange,
 M.; Krzysko, A. J.; Zhang, X.; Semrouni, D.; Wang, H-W.; Li, X.; Schenter, G. K.; Rosso, K. M.; Pearce, C. I.;
 Clark, A. E.; Clark, S. B. Relating Struture to Spectroscopic Signatures. 2019 Energy Frontier Research
 Centers Principal Investigators' Meeting

Washington, D.C.

Jun. 2019	<b>Wildman, A.</b> ; Paesani, F.; Li, X. Origins of Hydrogen-Bonding Driven X-Ray Emission Splitting in Liquid Water. Northwest Theoretical and Computational Chemistry Conference.	Pullman, WA
Mar. 2016	<b>Wildman, A.</b> ; Boland, N.E. Oxalic Acid Influences Kinetics of Strong Chelate Exchange Reactions. 251st American Chemical Society National Meeting and Exposition.	San Diego, CA
Nov. 2015	<b>Wildman, A.</b> ; Boland, N.E. Influence of Oxalic Acid on Rates of Ligand Exchange between Strong Chelating Agents. 24th Annual Murdock College Science Research Conference.	Vancouver, WA
Mar. 2015	Boland, N.E.; Stone A.T.; Nelson, T.; Harned, M.V.; <b>Wildman, A.</b> Adjunctive, Disjunctive and "Interjunctive"? Influence of ligand structure on kinetic pathways of ligand exchange. Abstracts of Papers, 249th American Chemical Society National Meeting.	Denver, CO

# **Outreach Activities**

#### **Research Computing Club**

University of Washington

- RCC President (2019-Present)
- RCC Vice President (2018-2019)
- RCC mentorship program [Mentor] (2017-Present)

#### **Clean Energy Institute Ambassadors**

University of Washington

- Solar car derby at Thorton Creek Elementary, Martin Sortun Elementary, and Eastgate Elementary
- Solar car derby at Engineering Discovery Days
- Dye-sensitized solar cells at Ingraham High School

WC Science Outreach Whitman College

- Science night at Green Park Elementary
- Teaching the senses at Sharpstein Elementary

# **Teaching Experience**

## **University of Washington**

Seattle, WA

TEACHING ASSISTANT (GENERAL CHEMISTRY)

Sept. 2016 - Mar. 2017

#### **Whitman College**

Walla Walla, WA

TEACHING ASSISTANT (QUANTITATIVE ANALYSIS)

Sept. 2014 - Dec. 2015