

January 8, 2024

Name: Adam T. Groves
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Curriculum Vitae

Education

Purdue University, West Lafayette, Indiana

Degree: Ph.D. in Biochemistry-Molecular Biology, May 12, 2017

Advisor: Prof. Nikolai R. Skrynnikov

Dissertation Title: Loss of Protein Stability due to Formation of Intermolecular Disulfide Bonds under the Effect of Oxidative Stress: Case Study of the RRM2 Domain from Neuropathological Protein TDP-43.

Indiana University Southeast (IUS), New Albany, Indiana

Degree: B.S. in Chemistry, May 2012

Minor: Mathematics and Honor Program Fellow

Research: Binding of quinoline-based inhibitors to *Plasmodium Falciparum Lactate*

Dehydrogenase: A molecular docking study.

Employment since Ph.D.

Visiting Assistant Professor of Chemistry- Department of Chemistry, Whitman College (Current Position)

Lecturer—Department of Chemistry and Biochemistry, California Polytechnic State University (2017-2024)

Courses Taught at Cal Poly

CHEM 125—General Chemistry for Physical Science and Engineering II (9 quarters, 11 sections)

CHEM 129—Lab General Chemistry for Agriculture and Life Science III (4 quarters, 7 sections)

CHEM 124—General Chemistry for Physical Science and Engineering I (5 quarters, 6 sections)

CHEM 127—General Chemistry for Agriculture and Life Science I (5 quarters, 5 sections)

CHEM 128—General Chemistry for Agriculture and Life Science II (5 quarters, 7 sections)

CHEM 312—Organic Chemistry: Fundamentals and Applications Lab (3 quarter, 5 sections)

CHEM 313/314—Lecture Biochemistry: Fundamentals and Applications (2 quarters, 2 sections)

CHEM 313/314—Lab Biochemistry: Fundamentals and Applications (4 quarters, 7 sections)

CHEM 371/369—Laboratory of Biochemical Lab Principles (4 quarters, 5 sections)

CHEM 466 — Learning Assistant Seminar (3 quarters, 3 sections)

Memberships & Awards

National Society of Leadership and Success

The Arête Award from the Honors Program IUS (2012)

IUS student Research Fellowship (2011)

Biophysical Society

CANMRDG member (Chicago Area NMR Discussion Group)

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Publications

Lucy R. Bowen, Dennis J. Li, Derek T. Nola, Marc O. Anderson, Michael Heying, **Adam T. Groves**, Scott Eagon, Identification of potential Zika virus NS2B-NS3 protease inhibitors via docking, molecular dynamics and consensus scoring-based virtual screening. *J Mol Model* **25**, 194 (2019)
doi:10.1007/s00894-019-4076-6

Kerstin Kämpf, Sergei A. Izmailov, Sevastyan O. Rabdano, **Adam T. Groves**, Ivan S. Podkorytov, Nikolai R. Skrynnikov, What drives ¹⁵N Spin Relaxation in Disordered Proteins? Combined NMR/MD Study of the H4 Histone Tail, *Biophysical Journal*, Volume 115, Issue 12, 2348-2367.

Sevastyan O. Rabdano, Sergei A. Izmailov, Dmitrii A. Luzik, **Adam Groves**, Ivan S. Podkorytov, Nikolai R. Skrynnikov, Onset of disorder and protein aggregation due to oxidation-induced intermolecular disulfide bonds: case study of RRM2 domain from TDP-43. *Scientific Reports*, 2017. 7(1): p. 11161.

Sevastyan O. Rabdano, Ivan S. Podkorytov, Sergei A. Izmailov, Yulia V. Pivovaraova, Alexander P. Yakimov, Tairan Yuwen, **Adam Groves**, Nikolai R. Skrynnikov, Loss of Protein Stability due to Formation of Intermolecular Disulfide Bonds under the Effect of Oxidative Stress: Case Study of the RRM2 Domain from Neuropathological Protein TDP-43, *Biophysical Journal*, Volume 110, Issue 3, 210a

Victor F. Waingeh, **Adam T. Groves**, Jeremy A Eberle, Binding of Quinoline-Based Inhibitors to *Plasmodium Falciparum* Lactate Dehydrogenase: A Molecular Docking Study, *Open Journal of Biophysics*, **3**, 285-290. <http://dx.doi.org/10.4236/ojbiphy.2013.34034>.

Special Contributions to Curriculum/Course Coordination

- Helped Pilot a modified CHM 125 Course Schedule with Dr. Retsek in the Fall Quarter of 2017. Provided comments on the modified course schedule and was a part of discussions on how to improve the scheduling for future quarters. **(Fall 2017)**
- Working with Dr. Oza and Dr. Wilkinson to pilot a new lab for CHEM 313 **(Winter 2019)** Piloted the lab during my lab section and offered advice on how to implement the lab in future quarters.
- Helped test and pilot the back-titration version of the Carbonates lab for CHEM 124/127 with Dr. Erker and Dr. Braten. **(Winter/Spring 19)**
- A part of the cohort working on Revamping CHEM 128 and CHEM 129 with other faculty members. Helped in discussions about course modifications in pacing and content. In the process of proposing a new lab for CHEM 129 for the biochemistry section we are looking to include into the curriculum. **(Fall 19-Fall21)**
- Worked with Dr. Hagen, Dr. Morey, and Dr. Braten to get a virtual form of CHEM 125/128 off the ground last winter and continued to update/modify the course through summer and fall. **(Winter 20-Fall 2021)**
- Created and tested a new LabPal assignment for CHEM 371 (GOT purification Lab). The testing was done in each lab I instructed as well as Dr. Jones' labs. **(Fall 2021)**
- Part of a team that converted Virtual LabPals to in-person for use in 125/128 **(Fall 2021-Winter 2022)**.
- Continued to help other faculty navigate the intricacies of Canvas Quizzes while primarily virtual teaching **(Fall 2020-Spring 2021)**

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- Converted LabPals from virtual to in-person for CHEM 129 (**Fall 2021**)
- Modified and Updated LabPals for 129 laboratory (**Spring 2022**)
- Part of the Biochemistry sub-division group discussing quarter to semester course development and coordination. (**Fall 2022-Present**)
- Part of ASEC to facilitate discussion of quarter to semester transition for the Chemistry and Biochemistry department (**Fall 2022-Present**)

Service and University Citizenship

Attended New Faculty Orientation (**2017**)

Attended Fall Conference (**2017-2022**)

Faculty Advisor for a student led Book Club (**2017-2018**)

Attended the studio workshop. (**2017-18,2018-2019**)

Regularly attend the General Chemistry meetings (**2017-Present**)

Regularly attend and help facilitate the Learning Assistant class CHEM-466 (**2017-Present**)

Implicit Bias training attended with the LA course (**2/24/2020**)

Led the General Chemistry Studio Workshop (**9/14/2022**)

Part of the biochemistry sub-division tasked with creating a model for the Biochemistry degree at Cal Poly for the transition to semesters (**Fall 2022-Present**)

Part of the SCC committee tasked with going over course proposals before they reach the college committee (**Fall 2022-Present**)

A member of the ASEC committee to facilitate the discussion of the quarter to semester transition for the department of chemistry and biochemistry at Cal Poly (**Fall 2022-Present**)

Lead and Host for "Pancakes with Chemistry Professors" (**Winter 2023-Present**)

CTLT Workshop: Introduction to Equitable and Inclusive Teaching (**Fall 2021**)

- Five-module self-paced online course "Teaching & Learning in the Diverse Classroom"
 - Cornell University on EdX
 - Course required 10-20 Hours of commitment to asynchronous learning
- Completed materials for certification of the course
 - Identified one or more actions I will take to contribute toward equity and inclusion goals at Cal Poly
 - Detailed instructional techniques I plan on incorporating into my teaching that will contribute to the equity in my discipline and courses.

HHMI Faculty Learning Community: Intersectionality and Higher Education

- Faculty learning community to learn about how we can evaluate inclusive teaching and how we might then use that evaluation in higher education (including in faculty promotion and tenure). Participants in this faculty learning community will read a selection of chapters from Intersectionality and Higher Education: Identity and Inequality on College Campuses (2019), edited by W. Carson Byrd, Rachelle J. Brunn-Bevel, Sarah M. Ovink. Participants will have access to the book, both in paper format and electronically. The learning community will meet to discuss the book and its application to Cal Poly, and produce artifacts to reflect our learning.