

**Ariana O. Hall**  
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## Education

### Postdoctoral Fellow in Chemistry Education 2017–2018

University of Michigan  
 Advisor: Anne J. McNeil

### PhD in Organic Chemistry August 2017

University of Michigan  
 Dissertation: Catalyst and Reaction Development in Conjugated Polymer Synthesis  
 Advisor: Anne J. McNeil

### BA in Chemistry, *Magna cum Laude* 2008

Bryn Mawr College  
 Research: Synthesis of alkyl-substituted [n]phenacenes  
 Advisor: Frank B. Mallory

## Teaching and Mentoring Experience

### Laboratory Lecturer August 2020–present

Bryn Mawr College  
 Department of Chemistry  
 Bryn Mawr, PA

- Teach and coordinate Organic Chemistry 1 and 2 Lab courses
- Develop new experiments for Organic Chemistry 1 and 2 Lab courses

### Lecturer A and Pre-health Advisor August 2018–August 2020

University of Pennsylvania  
 School of Liberal and Professional Studies, Pre-health Post-Baccalaureate Program  
 Philadelphia, PA

- Teach Principles of Organic Chemistry 1 and 2 Lecture Courses, Experimental Organic Chemistry Lab course
- Advise pre-health post-baccalaureate students

### Teaching Postdoctoral Fellow May 2017–June 2018

University of Michigan  
 School of Literature, Arts and Sciences  
 Department of Chemistry  
 Ann Arbor, MI

- Taught and collaborated in developing the curriculum and course manual for Organic Chemistry 1 Lab
- Designed and taught a two-week summer camp for high school students about polymer chemistry as part of the Michigan Math and Science Scholars summer program

### Graduate Student Instructor 2012–2013

University of Michigan  
*Organic Chemistry I Discussion Leader* (1 semester)

*Organic Chemistry II Laboratory* (1 semester)

*Organic Principles* (graduate level physical organic chemistry, 1 semester)

**Research Mentor**

2015–2017

University of Michigan  
School of Literature, Arts and Sciences  
Department of Chemistry  
Ann Arbor, MI

- Mentored two incoming graduate students and four undergraduate students

**Publications**

- Fagnani, D. E.; Hall, A. O.; Zurcher, D. M.; Sekoni, K. N.; Barbu, B. N.; McNeil, A. J. "Short Course on Sustainable Polymers for High School Students." *J. Chem. Educ.* **2020**, *97* (8), 2160–2168.
- Wu, N.; Kubo, T.; Hall, A. O.; Zurcher, D. M.; Phadke, S.; Wallace, R. L.; McNeil, A. J. "Adapting Meaningful Learning Strategies to Teach Liquid–Liquid Extractions" *J. Chem. Educ.* **2020**, *97*, 80–86
- Kothari, D.; Hall, A.O.; Castaneda, C.A.; McNeil, A.J. "Connecting organic chemistry concepts with real-world contexts by creating infographics" *J. Chem. Educ.* **2019**, *96*, 2524–2527
- Wu, N.; Kubo, T.; Sekoni, K. M.; Hall, A. O.; Phadke, S.; Zurcher, D. M.; Wallace, R. L.; Kothari, D. B.; McNeil, A. J. "Student-Designed Green Chemistry Experiment for a Large-Enrollment, Introductory Organic Laboratory Course." *J. Chem. Educ.* **2019**, *96*, 2420–2425.
- Wu, N.; Hall, A. O.; Phadke, S.; Zurcher, D. M.; Wallace, R. L.; Castañeda, C. A.; McNeil, A. J. "Adapting Meaningful Learning Strategies for an Introductory Laboratory Course: Using Thin-Layer Chromatography to Monitor Reaction Progress." *J. Chem. Educ.* **2019**, *96*, 1873–1880.
- McNeil, A.J.; Nelson, M.; Hall, A.O.; Captain, N.; Snyder, S.; Kohler, M.; Zurcher, D.; Pitcairn, C.A.; Phadke, S. *Chemistry 211 Laboratory Manual Third Edition* Hayden-McNeil Macmillan Learning: Michigan, 2018
- Hall, A.O.; Lee, S.R.; Bootsma, A.N.; Bloom, J.W.G.; Wheeler, S.E.; McNeil, A.J. "Reactive Ligand Influence on Initiation in Phenylene Catalyst-Transfer Polymerization." *J. Polym. Sci. Part A: Polym. Chem.* **2017**, *55*, 1530–1535.
- Bryan, Z.J.; Hall, A.O.; Zhao, C.T.; Chen, J.; McNeil, A.J. "Limitations of Using Small Molecules to Identify Catalyst-Transfer Polycondensation Reactions." *ACS Macro Lett.* **2016**, *5*, 69–72.

**Select Presentations**

- **Poster:** Hall, A.O.; Lee, S.R.; McNeil, A.J. "A direct method for measuring precatalyst initiation rates in catalyst-transfer polycondensations" Karle Symposium, University of Michigan, Ann Arbor, MI, 08/2016
- **Poster:** Hall, A.O.; Lee, S.R.; McNeil, A.J. "Designing Fast Initiating Nickel Pre-catalysts for  $\pi$ -Conjugated Polymer Synthesis" ACS National Meeting, Excellence in Graduate Polymer Research Symposium, Denver, CO, 03/2015

**Awards and Honors**

- "Best Poster" award Karle Symposium 2015
- Recognition for Excellence in Graduate Polymer Research Symposium, ACS National Meeting, 2015