Shauna M. Paradine, Ph.D.

Department of Chemistry
University of Rochester
453 Hutchison Hall, Rochester, NY 14627
office phone: (585) 276-5822 • sparadin@ur.rochester.edu
http://www.sas.rochester.edu/chm/groups/paradine/ • @paradinelab

Professional Experience

Assistant Professor, *University of Rochester*, 2018 – present

NIH Postdoctoral Fellow, *Harvard University*, 2015 – 2018
Research Advisor: Prof. Eric N. Jacobsen

NSF Graduate Research Fellow, *University of Illinois at Urbana-Champaign*, 2008 – 2015
Research Advisor: Prof. M. Christina White

DAAD ACS-RISE Scholar, *Universität Mainz, Germany*, 2007
Research Advisor: Prof. Bernhard Witulski

Visiting Undergraduate Scholar, *Cardiff University, Wales, UK,* 2006
Research Advisor: Prof. Thomas Wirth

Undergraduate Research Assistant, *Albion College*, 2004 – 2008
Research Advisor: Prof. Andrew N. French

Education

University of Illinois at Urbana-Champaign, Urbana, IL
Ph.D. in Chemistry, 2015

Albion College, Albion, MI
B.A. in Chemistry – Summa cum Laude, with Albion College Honors, 2008

Honors and Awards

2020	Thieme Chemistry Journals Award
2015-2018	Ruth L. Kirschstein NIH Postdoctoral Fellow (NIGMS)
2012-2013	Philanthropic Educational Organization (P.E.O.) Scholar Award
2009-2012	NSF Graduate Research Fellow
2008-2009	Sylvia Stoesser Fellow (UIUC Department of Chemistry)
2008	David L. Randall Award for the Outstanding Senior Chemistry Major (Albion)
2008	The Phi Beta Kappa Society
2007-2008	Marvin F. Grostic Endowed Scholarship in Chemistry (Albion)
2007	DAAD ACS-RISE Scholar
2007	IUPAC Undergraduate International Summer Research ACS Poster Award
2006	USTFCCCA All-Academic, Women's Cross-Country
2006	Mark E. Putnam Memorial Outstanding Sophomore Chemistry Major Award (Albion)
2004	ACS Kalamazoo Section Competitive Chemistry Exam, 2nd Place scholarship winner

Publications

5) **Paradine, S.M.***; Ronchi, E.*; Jacobsen, E.N. "Enantioselective, multicomponent synthesis of homoallylic amines enabled by hydrogen bonding and dispersive interactions." *Manuscript in preparation.*

4) **Paradine, S.M.***; Griffin, J.R.*; Zhao, J.; Petronico, A.L.; Miller, S.; White, M.C. "A Manganese Catalyst for Highly Reactive yet Selective Intramolecular C(sp^3)–H Amination." *Nature Chemistry*, **2015**, *7*, 987-994. **[*cited 170 times*]**
   - News of the Week, *Chemical & Engineering News*, 12 October 2015
   - Editors' Choice, *Science*, 30 October 2015 (*350*, pp. 525)
   - "White-Paradine Catalyst" available from Sigma-Aldrich: Product #799688

3) **Paradine, S.M.**; White, M.C. "Iron-Catalyzed Intramolecular Allylic C–H Amination." *Journal of the American Chemical Society,* **2012**, *134*, 2036-2039. **[*cited 287 times*]**

2) Altermann, S.M.; Richardson, R.D.; Page, T.K.; Schmidt, R.K.; Holland, E.; Mohammed, U.; **Paradine, S.M.**; French, A.N.; Richter, C.; Bahar, A.M.; Witulski, B.; Wirth, T. "Catalytic Enantioselective α-Oxysulfonylation of Ketones Mediated by Iodoarenes." *European Journal of Organic Chemistry,* **2008**, 5315-5328. **[*cited 99 times*]**

1) Richardson, R.D.; Page, T.K.; Altermann, S.; **Paradine, S.M.**; French, A.N.; Wirth, T. "Enantioselective α-Oxytosylation of Ketones Catalysed by Iodoarenes." *Synlett,* **2007**, 538-542. **[*cited 97 times*]**

Patents

1) White, M.C.; **Paradine, S.M.**; Griffin, J.R.; Zhao, J.; Petronico, A.L. "General Catalyst for C–H Functionalization." U.S. Patent 9,770,711, **2017**.

Invited Lectures

SUNY-Fredonia, *Fredonia, NY, November 2019*

Title: "Building complex organic scaffolds through selective C–C bond forming reactions"

SUNY-Brockport, *Brockport, NY, September 2019*

Title: "Building complex organic scaffolds through selective C–C bond forming reactions"

Albion College, *Albion, MI, October 2017*
Title: "Oh, the molecules you'll make! Selective catalysis for organic synthesis"

Albion College (Seemon Pines Award Lecture), *Albion, MI, October 2012*
Title: "Introducing nitrogen through C–H bond activation with iron catalysts"

Alma College, *Alma, MI, October 2012*
Title: "Introducing nitrogen through C–H bond activation with iron catalysts"

Conference Participation

Gordon Research Conferences (Stereochemistry)
Newport, RI, July 2018
Poster: "Enantioselective multicomponent allylation reactions enabled by H-bond donor catalysis"

Gordon Research Conferences (Natural Products & Bioactive Compounds)
Andover, NH, July 2017

Poster: "Enantioselective multicomponent synthesis of homoallylic amines from aldehydes and acetals enabled by anion-binding catalysis"

Boston Symposium on Organic and Bioorganic Chemistry
Boston, MA, October 2016
Poster: "Enantioselective aza-Sakurai cyclization via dual hydrogen bond donor catalysis"

Gordon Research Conferences (Stereochemistry)
Newport, RI, July 2016
Poster: "Enantioselective aza-Sakurai cyclization via dual hydrogen bond donor catalysis"

UIUC Department of Chemistry OCB 27th Pines-Beak Allerton Conference
Monticello, IL, November 2013
Poster: "Iron-catalyzed intramolecular allylic C–H amination"

6th CaRLa Winter School
Heidelberg, Germany, February 2013
Poster: "Iron-catalyzed intramolecular allylic C–H amination"

UIUC Department of Chemistry OCB 26th Pines-Beak Allerton Conference
Monticello, IL, November 2012
Seminar: "Iron-catalyzed intramolecular allylic C–H amination"

ACS 244th National Meeting
Philadelphia, PA, August 2012
Seminar: "Iron-catalyzed intramolecular allylic C–H amination"

Teaching Experience

University of Rochester
Organotransition Metal Catalysis in Organic Synthesis I/II [CHEM 436/438], Spring 2020
Organic Reactions [CHEM 435], Fall 2018, Fall 2019

University of Illinois at Urbana-Champaign
Organotransition Metal Chemistry [CHEM 538], *Spring 2014 (Head TA)*
Organic Chemistry for Majors Laboratory [CHEM 237], *Fall 2008, Spring 2009 (Head TA)*

Service

2020-present	Chemistry Women Mentorship Network (Chem WMN) – Mentor
Feb 2020	North Shore CC – STEM Club featured speaker
Feb 2020	Rochester Community Girl Scout Troop – Women in STEM visit
Fall 2019	CAS 207 Instructor – STEM outreach-based course
2019-present	Preceptor, NIH T32 Chemical-Biology Interface Training Program

Professional Affiliations

American Chemical Society
Phi Beta Kappa