

# CURRICULUM VITAE

## KAZIMER L. SKUBI

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### EDUCATION AND TRAINING

<b><i>Yale University</i></b>	2017–2020
NIH F32 Postdoctoral Fellow (Advisor: Patrick Holland)	
<b><i>University of Wisconsin–Madison</i></b>	2011–2017
Ph.D. in Chemistry (Advisor: Tehshik Yoon) Thesis Title: “New Strategies for Catalytic Stereocontrol in Photochemical Synthesis”	
<b><i>Carleton College</i></b>	2007–2011
B.A. in Chemistry, <i>summa cum laude</i> ACS-Certified Degree, Distinction in Major, Distinction in Senior Integrative Exercise	

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### PROFESSIONAL EXPERIENCE

Assistant Professor of Chemistry, <i>Carleton College</i>	2023–present
Visiting Assistant Professor of Chemistry, <i>St. Olaf College</i>	2022–2023
Visiting Assistant Professor of Chemistry, <i>Skidmore College</i>	2020–2022
NIH F32 Postdoctoral Fellow, <i>Yale University</i>	2018–2020
Postdoctoral Associate, <i>Yale University</i>	2017–2018
Graduate Student, <i>University of Wisconsin–Madison</i>	2011–2017

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### TEACHING EXPERIENCE

#### ***Carleton College***

CHEM 233: Organic Chemistry I + Lab  
CHEM 234: Organic Chemistry II + Lab  
CHEM 306: Spectrometric Characterization of Organic Compounds  
CHEM 353: Organic Chemistry III  
CHEM 394: Directed Research in Chemistry  
CHEM 400: Senior Comprehensive Exercise

#### ***St. Olaf College***

CHEM 122: Introductory Chemistry + Discussion + Lab  
CHEM 124: A Matter of the Environment + Lab  
CHEM 254: Synthesis Lab II  
CHEM 297: Independent Research

#### ***Skidmore College***

CH 125: Principles of Chemistry + Lab  
CH 126: Principles of Chemistry + Lab

HF 200: Peer-Led Team Learning for CH 126  
 CH 221: Organic Chemistry I Lab  
 CH 222: Organic Chemistry II Lab

**University of Wisconsin–Madison (Teaching Assistant)**

CHEM 344: Organic Chemistry Laboratory  
 CHEM 345: Organic Chemistry II  
 CHEM 346: Intermediate Organic Chemistry Laboratory  
 CHEM 636: Introduction to NMR  
 CHEM 637: Advanced Methods in NMR

**Carleton College (Teaching Assistant)**

CHEM 123: Introductory Chemistry  
 CHEM 233: Organic Chemistry I  
 CHEM 234: Organic Chemistry II

**FUNDING**

[7]	American Chemical Society Petroleum Research Fund (UNI), "Development of Regioselective Strategies for Photoredox-Promoted Radical Conjugate Additions." \$55,000	2024–2026
[6]	Carleton College Curriculum Innovation Grant, "Designing a Greener Organic Chemistry Teaching Lab." \$2,400	2025
[5]	Carleton College Towsley Funding, "Controlling the Selectivity of Organic Radical Reactions Enabled by Visible Light Photocatalysis." \$12,500	2025
[4]	Carleton College Towsley Funding, "Controlling the Selectivity of Organic Radical Reactions Enabled by Visible Light Photocatalysis." \$12,100	2024
[3]	St. Olaf College CURT Summer Research Grant, "Organic Radical Chemistry using Visible Light." \$2000 (Declined)	2023
[2]	Skidmore College Faculty Development Grant, "Aromatic Functionalization using Visible Light." \$1,288	2021
[1]	NIH F32 Postdoctoral Fellowship, "Modeling Second-Sphere Interactions in Enzymatic Nitrogen Fixation." \$91,656	2018–2020

**PUBLICATIONS**

\* denotes co-authorship with equal contribution.

- [13] Swords, W. B.; Lee, H.; Park, Y.; Llamas, F.; **Skubi, K. L.**; Park, J.; Guzei, I. A.; Baik, M.-H.; Yoon, T. P. Highly Enantioselective 6 $\pi$  Photoelectrocyclizations Engineered by Hydrogen Bonding. *J. Am. Chem. Soc.* **2023**, *145*, 27045–27053.
- [12] Wandzilak, A.; Grubel, K.; **Skubi, K. L.**; McWilliams, S. F.; Bessas, D.; Rana, A.; Hugenbruch, S.; Dey, A.; Holland, P. L.; DeBeer, S. Mössbauer and Nuclear Resonance Vibrational Spectroscopy Studies of Iron Species Involved in N–N Bond Cleavage. *Inorg. Chem.* **2023**, *62*, 18449–18464.
- [11] **Skubi, K. L.\***; Hooper, R. X.\*; Mercado, B. Q.; Bollmeyer, M. M.; MacMillan, S. N.; Lancaster, K. M.; Holland, P. L. Iron Complexes of a Proton-Responsive SCS Pincer Ligand with a Sensitive Electronic Structure. *Inorg. Chem.* **2022**, *61*, 1644–1658.
- [10] Speelman, A. L.; **Skubi, K. L.**; Mercado, B. Q.; Holland, P. L. Synthesis and Reactivity of Iron Complexes with a Biomimetic SCS Pincer Ligand. *Inorg. Chem.* **2021**, *60*, 1965–1974.
- [9] **Skubi, K. L.**; Swords, W. B.; Hofstetter, H.; Yoon, T. P. LED-NMR Monitoring of an Enantioselective Catalytic [2+2] Photocycloaddition. *ChemPhotoChem* **2020**, *4*, 685–690.
- [8] Zheng, J.; Swords, W. B.; Jung, H.; **Skubi, K. L.**; Kidd, J. B.; Meyer, G. J.; Baik, M.-H.; Yoon, T. P. Enantioselective Intermolecular Excited-State Photoreactions Using a Chiral Ir Triplet Sensitizer: Separating Association from Energy Transfer in Asymmetric Photocatalysis. *J. Am. Chem. Soc.* **2019**, *141*, 13625–13634.

- [7] Amador, A. G.\*; Scholz, S. O.\*; **Skubi, K. L.\***; Yoon, T. P. Photocatalytic Cycloadditions. In *Science of Synthesis: Photocatalysis in Organic Synthesis*; König, B., Ed.; Georg Thieme Verlag KG: New York, 2018; pp 467–516.
- [6] **Skubi, K. L.**; Holland, P. L. So Close, yet Sulfur Away: Opening the Nitrogenase Cofactor Structure Creates a Binding Site. *Biochemistry* **2018**, *57*, 3540–3541.
- [5] Pelmenschikov, V.; Gee, L. B.; Wang, H.; MacLeod, K. C.; McWilliams, S. F.; **Skubi, K. L.**; Cramer, S. P.; Holland, P. L. NRVs Detection of Fe-H Vibrations in a Bridging Hydride Model of Nitrogenase Intermediates. *Angew. Chem. Int. Ed.* **2018**, *57*, 9367–9371.
- [4] **Skubi, K. L.**; Kidd, J. B.; Jung, H.; Guzei, I.; Baik, M.-H.; Yoon, T. P. Enantioselective Excited-State Photoreactions Controlled by a Chiral Hydrogen-Bonding Iridium Sensitizer. *J. Am. Chem. Soc.* **2017**, *139*, 17186–17192.
- [3] **Skubi, K. L.**; Blum, T. R.; Yoon, T. P. Dual Catalysis Strategies in Photochemical Synthesis. *Chem. Rev.* **2016**, *116*, 10035–10074.
- [2] **Skubi, K. L.**; Yoon, T. P. Shape Control in Reactions with Light. *Nature* **2014**, *515*, 45–46.
- [1] Du, J.\*; **Skubi, K. L.\***; Schultz, D. M.\*; Yoon, T. P. A Dual-Catalysis Approach to Enantioselective [2+2] Photocycloadditions Using Visible Light. *Science* **2014**, *344*, 392–396.

### PATENTS AND COMMERCIAL PRODUCTS

- [1] Ligands for asymmetric [2+2] photocycloaddition of enones (Sigma–Aldrich #798819, #798827)

### PRESENTATIONS

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|------|------------------------------------------------------------------------------------------|-----------|
| [36] | St. Olaf College                                                                         | Apr. 2025 |
| [35] | Carleton/St. Olaf Joint Supergroup Seminar                                               | Aug. 2023 |
| [34] | Carleton College Summer Tea Talk                                                         | Jul. 2023 |
| [33] | Carleton College                                                                         | Jan. 2023 |
| [32] | St. Olaf College Research Poster Session (Poster Presentation)                           | Sep. 2022 |
| [31] | Union College                                                                            | Oct. 2021 |
| [30] | Skidmore College Research Open House                                                     | Oct. 2021 |
| [29] | Middlebury College                                                                       | Dec. 2020 |
| [28] | Amherst College                                                                          | Oct. 2020 |
| [27] | Yale University Chemistry: New PUI Faculty Panel (Panel Presentation)                    | Aug. 2020 |
| [26] | SUNY Oneonta                                                                             | Dec. 2019 |
| [25] | Cal Poly Pomona                                                                          | Nov. 2019 |
| [24] | Sonoma State University                                                                  | Nov. 2019 |
| [23] | Trinity University                                                                       | Nov. 2019 |
| [22] | Ursinus College                                                                          | Nov. 2019 |
| [21] | Oberlin College                                                                          | Oct. 2019 |
| [20] | Ithaca College                                                                           | Sep. 2019 |
| [19] | Inorganic Reaction Mechanisms Gordon Research Conference (Poster Presentation)           | Mar. 2019 |
| [18] | Carleton College                                                                         | Feb. 2019 |
| [17] | Yale Inorganic Division Seminar Series, Metal Mania XXVIII                               | Nov. 2017 |
| [16] | UW–Madison Ph.D. Thesis Defense                                                          | Jul. 2017 |
| [15] | UW–Madison Research Presentations for Incoming Graduate Students                         | Aug. 2016 |
| [14] | Stereochemistry Gordon Research Conference (Poster Presentation)                         | Jul. 2016 |
| [13] | UW–Madison Organic Division SuperGroup Meeting                                           | May 2016  |
| [12] | UW–Madison Student Awards Ceremony (Poster Presentation)                                 | Apr. 2016 |
| [11] | UW–Madison Lincoln Seminar                                                               | Jan. 2016 |
| [10] | UW–Madison Chemistry Opportunities Poster Session (Poster Presentation)                  | Oct. 2015 |
| [9]  | UW–Madison Graduate Student Poster Session (Poster Presentation)                         | May 2015  |
| [8]  | 249 <sup>th</sup> ACS National Meeting and Exposition                                    | Mar. 2015 |
| [7]  | Panel/Q&A for undergraduates seeking further education in chemistry (Panel Presentation) | Jun. 2014 |
| [6]  | UW–Madison Organic Division SuperGroup Meeting                                           | Oct. 2013 |
| [5]  | UW–Madison Second Year Public Seminar                                                    | Nov. 2012 |
| [4]  | Carleton College Senior Integrative Exercise                                             | Mar. 2011 |

[3]	Carleton College All Science and Math Poster Session (Poster Presentation)	Oct. 2010
[2]	Report to the Carleton College Parents' Advisory Council (Panel Presentation)	Oct. 2010
[1]	Carleton College Summer Research Presentation	Jul. 2010

### ACADEMIC HONORS AND AWARDS

[19]	National Institutes of Health NRSA F32 Postdoctoral Fellowship	Sep. 2018
[18]	Wisconsin Initiative for Science Literacy (WISL) Award for Communicating Graduate Chemistry Research to the Public	Aug. 2017
[17]	Paul Bender Award for Creative Use of Departmental Instrumentation	May 2017
[16]	Charles and Martha Casey Research Excellence Award	Apr. 2016
[15]	Honorable Mention, Graduate Student Poster Session	May 2015
[14]	Outstanding Chemistry TA Award	Apr. 2013
[13]	Graduation <i>Summa cum Laude</i> , Carleton College	Jun. 2011
[12]	ACS-Certified Chemistry Major	Jun. 2011
[11]	Distinction in Major	Jun. 2011
[10]	Distinction in Senior Integrative Exercise	Jun. 2011
[9]	American Institute of Chemists Student Award	May 2011
[8]	Biscotti Award for Outstanding Seminar Attendance	May 2011
[7]	Richard Ramette Teaching Award	May 2011
[6]	Scott Tyler Bergner Prize for Outstanding Academic Record and Demonstration of Excellence of Thought and Character	May 2011
[5]	Noyes Prize for Distinguished Scholarship	Mar. 2011
[4]	Phi Beta Kappa Second-Year Student Prize	Sep. 2009
[3]	Annual Dean's List, Carleton College	Sep. 2008, 2009, 2010
[2]	Phi Beta Kappa First-Year Student Prize	Sep. 2008
[1]	National Merit Scholar	Jun. 2007

### SERVICE

#### ***Department Service***

Summer Research Coordinator	2025–2026
Safety Subcommittee	2025–2026
NMR Subcommittee	2025–2026
Comps advising	2024–2025

#### ***College Service***

Advisory Committee for Student Life (ACSL)	2025–2027
Student advising	2024–present

#### ***Professional Service***

Grant proposal reviewing and refereeing: <i>ACS PRF</i>	2024–present
Manuscript reviewing and refereeing: <i>Nature, J. Am. Chem. Soc., Chem. Sci., Chem. Rev., Nature Chem., ACS Catal., Dalton Trans.</i>	2015–present

#### ***Outreach***

Chemistry outreach activities with Northfield High School and Faribault High School	2024–present
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#### ***Professional Affiliations***

American Chemical Society	2011–present
Sigma Xi	2011–2020
Phi Beta Kappa	2010–present

#### ***Service Prior to Carleton College***

Skidmore College: HHMI Inclusive Excellence Task Force on Reducing Bias in Teaching Evals.	2021–2022
Skidmore College: Equity, Inclusion, and Justice Advisory Committee for Chem. Dept.	2020–2022
Yale University: Developed Bystander Intervention Workshops (with Yale Title IX Office)	2018–2019
UW-Madison: Mentor in UW–Madison “Catalyst” program for first-year students	2016–2017
UW-Madison: Committee for Laser-Enhanced NMR	2016–2017
UW-Madison: graduate recruiting, including lead host and tour guide	2011–2015
Carleton College (as student): Healthy Communities and Relationships, member	2011
Carleton College (as student): Student Chemistry Organization “The Ring,” president	2010–2011
Carleton College (as student): “Speak Up Against Sexual Violence,” coordinator/host	2009–2011
Carleton College (as student): Gender Identity Discussion Group, discussion leader	2008–2011

### MENTORING EXPERIENCE

#### **Research Students**

[14]	Matilda Pro '27	Summer 2025–present
[13]	Lisa Li '27	Spring 2025–present
[12]	Lizzy Johnstone '27	Spring 2025–present
[11]	Zoe Morton '26	Winter 2025–present
[10]	Avery Dunn '26	Spring 2024–present
[9]	Meaghan Kelley '26	Summer 2024–present
[8]	Yinan Gao '26	Spring 2024–present
[7]	Noah Reid '26	Spring 2024–present
[6]	Garrett Marr, St. Olaf '25	Spring 2023
[5]	Liliana Schroedl, St. Olaf '25	Spring 2023
[4]	Kate Young, St. Olaf '25	Spring 2023
[3]	Sophie Gilbert, Skidmore '24	Fall 2021
[2]	Aida Castelblanco, Skidmore '23	Fall 2021
[1]	Arielle Gal, Skidmore '22	Summer 2021

#### **Skidmore College**

The Inclusive STEM Teaching Project (Northwestern University MOOC)	Summer 2021
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#### **Yale University**

Graduate Student Mentor, Holland Research Group	2017–2020
Fundamentals of Inclusive Teaching (Yale Center for Teaching and Learning)	Fall 2018

#### **University of Wisconsin–Madison**

Teaching in Science and Engineering: The College Classroom	Fall 2016
Mentor in the UW–Madison “Catalyst” program	Fall 2016
Graduate and Undergraduate Student Mentor, Yoon Research Group	2014–2017
ACS research mentor training workshop	Summer 2016
Research mentor training through UW–Madison “Delta” program (part of CIRTLL)	Summer 2012