Jeffrey M. Lipshultz, Ph.D.

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Professional Experience

Stony Brook University, Department of Chemistry
Assistant Professor 2022-present
Member, Institute of Chemical Biology & Drug Discovery 2023-present

Massachusetts Institute of Technology, Department of Chemistry
Postdoctoral Associate 2020-2022
Camille and Henry Dreyfus Environmental Chemistry Fellow 2018-2020
▸ *Advisor*: Professor Alexander T. Radosevich

Education

Princeton University, Department of Chemistry
Ph.D., Chemistry 2018
M.A., Chemistry 2015
▸ *Advisor*: Professor David W. C. MacMillan
▸ *Thesis*: Application of Novel Catalytic Platforms to C-C Bond Forming Reactions in Methodology Development and Natural Product Total Synthesis

Harvard University, Department of Chemistry and Chemical Biology
A.B., *Cum Laude*, Chemistry, with High Honors 2013
▸ *Advisor*: Professor Andrew G. Myers

Awards and Honors

Maximizing Investigators' Research Award, NIH, National Institute of General Medical Sciences 2025
Individual Development Award, SUNY 2024
Doctoral New Investigator Award, ACS Petroleum Research Fund 2023
Mentorship Spotlight Award, MIT Department of Chemistry 2021
Postdoctoral Fellowship in Environmental Chemistry, Camille & Henry Dreyfus Foundation 2018-2020
Hugh Stott Taylor Prize, Princeton University 2013-2015
Stanley A. Lefkowitz *70 Fellowship, Princeton University 2014
Graduate Research Fellowship Program Honorable Mention, National Science Foundation 2014
Herchel Smith Summer Undergraduate Research Fellowship, Harvard University 2011

Peer Reviewed Publications

Independent Publications

2. Degradative Alcohol Functionalization by Titanocene Photocatalysis. J. A. Shah, A. E. Lojko, Z. Tang, Y. Lin, E. H. Scher[#], C. A. Barefoot,[#] **J. M. Lipshultz**. *Chemrxiv*, DOI: 10.26434/chemrxiv-2025-vg021. [#]Undergraduate researcher.

1. Pyridoxal-Inspired Photo-Decarboxylase Catalysis: Photochemical Decarboxylation of Unprotected Amino Acids. D.-H. Tan, A. Das, [‡] V. Huang, [‡] T. D. Schoch, A. L. Mohammed, **J. M. Lipshultz**. *Angew. Chem. Int. Ed.* **2025**, e202424843. [‡]Equal contribution.

Mentored Publications

7. Deoxyfluorination of 1°, 2°, and 3°Alcohols by Nonbasic O–H Activation and Lewis Acid-Catalyzed Fluoride Shuttling. H. W. Moon, M. N. Lavagnino, S. Lim, M. D. Palkowitz, M. D. Mandler, G. L. Beutner, M. J. Drance, **J. M. Lipshultz**, P. M. Scola, and A. T. Radosevich. *J. Am. Chem. Soc.* **2023**, *145*, 22735–22744.

6. Uniting Amide Synthesis and Activation by P^{III}/P^{V}-Catalyzed Serial Condensation: Three-Component Assembly of 2-Amidopyridines. **J. M. Lipshultz**, A. T. Radosevich. *J. Am. Chem. Soc.* **2021**, *143*, 14487–14494.

5. Main Group Redox Catalysis of Organopnictogens: Vertical Periodic Trends and Emerging Opportunities in Group 15. **J. M. Lipshultz**,‡ G. Li,‡ A. T. Radosevich. *J. Am. Chem. Soc.* **2021**, *143*, 1699–1721. ‡Equal contribution.

4. Organophosphorus-Catalyzed Relay Oxidation of H–Bpin: Electrophilic C–H Borylation of Heteroarenes. **J. M. Lipshultz**, Y. Fu, P. Liu, A. T. Radosevich. *Chem. Sci.* **2021**, *12*, 1031–1037.

3. Driving Recursive Dehydration by P^{III}/P^{V} Catalysis: Annulation of Amines and Carboxylic Acids by Sequential C–N and C–C Bond Formation. M. Lecomte,‡ **J. M. Lipshultz**,‡ S.-H. Kim-Lee, G. Li, A. T. Radosevich. *J. Am. Chem. Soc.* **2019**, *141*, 12507–12512. ‡Equal contribution.

2. Catalyst-Controlled Oligomerization for the Collective Synthesis of Polypyrroloindoline Natural Products. C. R. Jamison, J. J. Badillo, **J. M. Lipshultz**, R. J. Comito, D. W. C. MacMillan. *Nat. Chem.* **2017**, *9*, 1165–1169.

1. Merging Photoredox and Nickel Catalysis: The Direct Synthesis of Ketones via the Decarboxylative Arylation of α-Oxo Acids. L. Chu, **J. M. Lipshultz**, D. W. C. MacMillan. *Angew. Chem. Int. Ed.* **2015**, *54*, 7929–7933.

Ongoing Research Support

Complex Amines from Simple Amino Acids via Pyridoxal-Mimicking Radical (Photo)Catalysis
Maximizing Investigators' Research Award (MIRA, R35). NIH, National Institute of General Medical Sciences.
Role: PI. Amount: $1,250,000. January 2025 – December 2029.

***Ansa*-Titanocene Photocatalysis for *O*-Centered Radical-Mediated Upgrading of Light Hydrocarbons**
Doctoral New Investigator Grant. American Chemical Society, Petroleum Research Fund.
Role: PI. Amount: $110,000. September 2023 – August 2025.

Pyridoxal-Inspired Radical Catalysis
Unfunded collaboration. Merck Sharp & Dohme LLC.
Role: PI. Amount: In-kind contributions. December 2024 – November 2026.

Completed Research Support

Aminomutase-Inspired Green Radical Amination
Ignition Grant. American Chemical Society, Green Chemistry Institute Pharmaceutical Roundtable.
Role: PI. Amount: $40,000. October 2023 – September 2024.

Upgrading of Simple and Macromolecular Alcohols via Catalytic Alkoxyl Radical β-Scission
Seed Grant. Stony Brook University, Office of the Vice President for Research.
Role: PI, with Barney Grubbs (co-PI). Amount: $50,000. April 2023 – July 2024.

Invited Seminars and Lectures

Binghmaton University, Binghamton, NY	May 2026
Fordham University, Bronx, NY	Feb 2025
SUNY Brockport, Brockport, NY	Oct 2024
Queens College, **City University of New York**, Queens, NY	Oct 2023
Institute of Chemical Biology & Drug Discovery, **Stony Brook University**, Stony Brook, NY	Sept 2023

Teaching: Stony Brook University

Chemistry 348/502, Reaction Mechanisms and Strategies in Organic Chemistry
- 9 undergraduate students, 10 graduate students — Spring 2024
- 12 undergraduate students, 11 graduate students — Spring 2023

Chemistry 384, Intermediate Synthetic and Spectroscopic Laboratory Techniques
- 25 undergraduate students — Fall 2024
- 11 undergraduate students — Fall 2023
- 21 undergraduate students — Fall 2022

Chemistry 619/696, Critical Readings of Current Topics in Chemistry/Organic Chemistry Seminar
- 22 graduate students — Fall 2024
- 16 graduate students — Fall 2023

Service Activities: Stony Brook University

Seminar Committee, Dept. of Chemistry, Co-Chairperson — 2022-present
- Engaging Undergraduates in Research Lecture Series — 2023-present
- Merck-SBU Lectures — Feb 2023
- Pfizer-SBU Symposium — Sept 2023
- Symposium on Bioorthogonal Chemistry in Honor of the 2022 Nobel Prize in Chemistry — Dec 2022

Graduate Recruitment Committee, Dept. of Chemistry, Member — 2022-present

Chemical Biology Training Program, Faculty Mentor — 2023-present

SBU-BNL Photochemistry Supergroup, Co-Organizer, with Dr. Matthew Bird (BNL) — 2023-present

Graduate Chemical Society, Dept. of Chemistry, Faculty Advisor — 2023-present

Chemistry 542: Chemical Biology, Guest Lecturer — 2023-present

NIH R-Award Series, Awardee Panel, Office of Proposal Development, Panelist — 2025

Chemistry Research Day, Dept. of Chemistry, Poster Judge — 2024

ICBDD Symposium, Institute of Chemical Biology and Drug Discovery, Poster Judge — 2023, 2024

Open Rank Faculty Search Committee, Dept. of Chemistry, Member, Inclusion Liaison — 2023-2024

Junior Faculty Search Committee, Dept. of Chemistry, Member — 2022-2023

Merck-SBU Interview Workshop, Organizer — May 2023

Dissertation Committees

Chairperson: Dominick Rendina (2022-), Ananya Shibana Thennarasu (2022-), Chuying Zou (2023-), Yogesh Kakade (2023-), Anna Muller (2024-), Anza Suneer Rahiyanath (2024-)

Third Member: Kun Lin Hsieh (2022-), Nicholas Wodzenski (2024-), Shiv Seth (2024-), Chuanzhou Zhu (2023, PhD), Xinyuan Gao (2022-2023, MA)

Outside Member: David Cabanero (2024, Columbia, Advisor: Tom Rovis)

Reviewing Activities: External

Journals: ACS Catal. (2022-), ACS Cent. Sci. (2024-), Angew. Chemie (2023-), Chem (2022-), J. Am. Chem. Soc. (2025-), Nat. Commun. (2024-), Sci. Adv. (2022-), Synlett (2024-)
Grants and Fellowships: ACS Petroleum Research Fund (2023-), NSF (2024-)

Trainee Advising

Current Graduate Students: Yetong Lin (2023-); Ashley Lojko (2023-); Jagrut Shah (2023-); Vincent Huang (2023-); Agniva Das (2024-); Ayah Fidama (2024-); Zirui Liu (2025-); Kiran Soma (2025-)

Current Undergraduate Students: Jialin Li (2025-, Biochemistry '27); Mahir Hossain (2025-, Chemistry '28)

Current Postdoctoral Researchers: Timothy Schoch (IRACDA Fellow, 2024-); Ethan Raffman (2025-)

Alumni

Graduate Students: Jaclyn Mauro (Ph.D. 2024, current: IRACDA Postdoctoral Fellow, Parker Lab, SBU), Abubakar Lawal Mohammed (2022-2024, current: Hsiao Group, SBU)

Postdoctoral Researchers: Zilu Tang (2023-2025, current: Postdoctoral Associate, Zuo Group, SIOC); Dong-Hang Tan (2023-2024, current: MSCA Postdoctoral Fellow, Dixon Group, Oxford)

Undergraduate Students: Emma Scher (2022-2025, Chemistry '25, current: Graduate student, CUNY Chemistry), Noah Schwartzapfel (2023-2025, Chemistry '25, current: Graduate student, Purdue Chemistry), Sayan Shil (2023-2025, Biomedical Engineering '25, current: Con-Edison) Maxim Savenkov (2024-2025, Chemistry '26), Nasiba Khandaker (2022-2023, BS Chemistry '23), Zongle Wei (2022–2023, Chemistry '24), Jacob Fox (2022–2023, Chemistry '24)

Visitors: Lorena River Perez (University of Puerto Rico, Mayagüez), SUNY SOAR, Summer 2025; Celeste Barefoot (UNC-Wilmington, Chemistry '25), SBU Chemistry REU, Summer 2024

Trainee Awards and Recognition

Graduate Students:

▸ Jagrut Shah:	National Organic Symposium Travel Award	2025
	SBU Chemistry Award for Outstanding Doctoral Student	2025
	SBU Chemistry Award for Outstanding Service	2025
	Merck Research Award for Underrepresented Chemists of Color	2024
▸ Jaclyn Mauro:	SBU Chemistry Award for Outstanding Service	2024

Undergraduate Students:

▸ Noah Schwartzapfel:	ACS Division of Organic Chemistry Undergraduate Award	2025
	SBU Chemistry Award for Outstanding Achievement in Chemical Research	2025
	SBU Chemistry Award for Outstanding Academic Achievement	2025
	SBU Chemistry Emerson Award	2025
▸ Emma Scher:	SBU Chemistry Award for Outstanding Academic Achievement	2025
	ACS Division of Organic Chemistry Summer Undergraduate Research Fellowship	2024
▸ Maxim Savenkov:	SBU Chemistry Dr. Kenneth M. Nicholas-URECA Fellowship	2024
▸ Jacob Fox:	SBU Chemistry Dr. Kenneth M. Nicholas-URECA Fellowship	2023

Workshops, Programs, and Trainings

Excellence in Teaching Program, SBU, Office of the Vice-Provost for Faculty Affairs	2023-2024
Research Mentoring for Faculty, SBU, Office of Professional Development	Fall 2023
Conducting Inclusive Hiring Searches, SBU, Office of Diversity, Inclusion & Intercultural Initiatives	Dec 2023
Early Career Investigator Workshop, National Science Foundation, Division of Chemistry	May 2023
New Faculty Workshop, American Chemical Society	Aug 2022

Outreach and Mentorship Activities

Letters to a Pre-Scientist, STEM Professional Pen Pal	2023-present
Princeton GradFUTURES Mentor Program, Alumni Mentor	2023-present
Bergen County Academies Alumni Career Day, Alumni Presenter	2023