

Jeffrey M. Lipshultz, Ph.D.

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Department of Chemistry
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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

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

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.

Research Support

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.

Aminomutase-Inspired Green Radical Amination

Ignition Grant. American Chemical Society, Green Chemistry Institute Pharmaceutical Roundtable.

Role: PI. Amount: \$40,000. October 2023 – April 2024.

Upgrading of Simple and Macromolecular Alcohols via Catalytic Alkoxy 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 – April 2024.

Invited Talks

Queens College, City University of New York, Queens, NY

October 2023

ICB&DD Monthly Meeting, Stony Brook University, Stony Brook, NY

September 2023

Teaching: Stony Brook University

Chemistry 348/502, Reaction Mechanisms and Strategies in Organic Chemistry

▶ 12 undergraduate students, 11 graduate students

Spring 2023

Chemistry 384, Intermediate Synthetic and Spectroscopic Laboratory Techniques

▶ 11 undergraduate students

Fall 2023

▶ 21 undergraduate students

Fall 2022

Chemistry 619/696, Critical Readings of Current Topics in Chemistry/Organic Chemistry Seminar

▶ 16 graduate students

Fall 2023

Service Activities: Stony Brook University

Seminar Committee, Dept. of Chemistry, Co-Chairperson

2022-present

▶ Pfizer-SBU Symposium

September 2023

▶ Symposium on Bioorthogonal Chemistry in Honor of the 2022 Nobel Prize in Chemistry

December 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

Open Rank Faculty Search Committee, Dept. of Chemistry, Member

2023-2024

Junior Faculty Search Committee, Dept. of Chemistry, Member

2022-2023

Merck-SBU Interview Workshop, Organizer

May 2023

Graduate Student Committees

Advisor: Yetong Lin (2023-), Ashley Lojko (2023-), Jaclyn Mauro (2023-), Abubakar Lawal Mohammed (2023-), Jagrut Shah (2023-), Vincent Huang (M.A., 2023-)

Chairperson: Dominick Rendina (2022-), Ananya Shibana Thennarasu (2022-), Chuying Zou (2023-), Yogesh Kakade (2023-)

Third Member: Chuanzhou Zhu (2023), Kun Lin Hsieh (2022-), Xinyuan Gao (2022-2023)

Reviewing Activities: External

Journals: Angewandte Chemie (2023-), ACS Catalysis (2022-), Chem (2022-), Science Advances (2022-)

Grants and Fellowships: ACS Petroleum Research Fund (2023-), NSF (2024-)

Workshops and Programs

Excellence in Teaching Program , Stony Brook University, Office of the Provost	2023-2024
Research Mentoring for Faculty , Stony Brook University, Office of Professional Development	2023
Early Career Investigator Workshop , National Science Foundation, Division of Chemistry	May 2023
New Faculty Workshop , American Chemical Society	August 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