

# Jeffrey M. Lipshultz, Ph.D.

Stony Brook University  
Department of Chemistry  
100 Nicolls Road  
Stony Brook, NY 11794

707 Chemistry  
(631)-632-7940  
jeffrey.lipshultz@stonybrook.edu  
lipshultz.group

## Professional Experience

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**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

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**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

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**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

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### 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<sup>III</sup>/P<sup>V</sup>-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**,<sup>‡</sup> G. Li,<sup>‡</sup> A. T. Radosevich. *J. Am. Chem. Soc.* **2021**, *143*, 1699–1721. <sup>‡</sup>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<sup>III</sup>/P<sup>V</sup> Catalysis: Annulation of Amines and Carboxylic Acids by Sequential C–N and C–C Bond Formation. M. Lecomte,<sup>‡</sup> **J. M. Lipshultz**,<sup>‡</sup> S.-H. Kim-Lee, G. Li, A. T. Radosevich. *J. Am. Chem. Soc.* **2019**, *141*, 12507–12512. <sup>‡</sup>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  $\alpha$ -Oxo Acids. L. Chu, **J. M. Lipshultz**, D. W. C. MacMillan. *Angew. Chem. Int. Ed.* **2015**, *54*, 7929–7933.

### Research Support

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#### **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 $\beta$ -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 Talks

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Queens College, City University of New York, Queens, NY	Oct 2023
ICB&DD Monthly Meeting, Stony Brook University, Stony Brook, NY	Sept 2023

### Teaching: Stony Brook University

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<b>Chemistry 348/502</b> , Reaction Mechanisms and Strategies in Organic Chemistry	
▶ 9 undergraduate students, 10 graduate students	Spring 2024
▶ 12 undergraduate students, 11 graduate students	Spring 2023
<b>Chemistry 384</b> , Intermediate Synthetic and Spectroscopic Laboratory Techniques	
▶ 11 undergraduate students	Fall 2023
▶ 21 undergraduate students	Fall 2022
<b>Chemistry 619/696</b> , Critical Readings of Current Topics in Chemistry/Organic Chemistry Seminar	
▶ 16 graduate students	Fall 2023

### Service Activities: Stony Brook University

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<b>Seminar Committee</b> , 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
<b>Graduate Recruitment Committee</b> , Dept. of Chemistry, Member	2022-present
<b>Chemical Biology Training Program</b> , Faculty Mentor	2023-present
<b>SBU-BNL Photochemistry Supergroup</b> , Co-Organizer, with Dr. Matthew Bird, BNL	2023-present
<b>Graduate Chemical Society</b> , Dept. of Chemistry, Faculty Advisor	2023-present
<b>Open Rank Faculty Search Committee</b> , Dept. of Chemistry, Member, Inclusion Liaison	2023-2024
<b>Junior Faculty Search Committee</b> , Dept. of Chemistry, Member	2022-2023
<b>Merck-SBU Interview Workshop</b> , Organizer	May 2023

## Trainee Advising

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**Current Graduate Students:** Yetong Lin (2023-), Ashley Lojko (2023-), Jaclyn Mauro (2023-), Jagrut Shah (2023-), Vincent Huang (MS, 2023-), Agniva Das (2024-), Ayah Fidama (2024-)

**Current Undergraduate Students:** Emma Scher (2022-, Chemistry '25), Noah Schwartzapfel (2023-, Chemistry '25), Sayan Shil (2023-, Biomedical Engineering '25), Filip Pukarczyk (2024-, Chemistry '26), Maxim Savenkov (2024-, Chemistry '26)

**Current Postdoctoral Researchers:** Dong-Hang Tan (2023-), Zilu Tang (2023-)

**Visitors:** Celeste Barefoot (UNC-Wilmington, Chemistry '25) SBU Chemistry REU, Summer 2024

**Past Graduate Students:** Abubakar Lawal Mohammed (2022-2024, current: Hsiao Group, SBU)

**Past Undergraduate Students:** Nasiba Khandaker (2022-2023, BS Chemistry '23), Zongle Wei (2022-2023, Chemistry '24), Jacob Fox (2022-2023, Chemistry '24)

## Trainee Awards and Recognition

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### Graduate Students:

- ▶ Jagrut Shah: Merck Research Award for Underrepresented Chemists of Color 2024
- ▶ Jaclyn Mauro: SBU Chemistry Award for Outstanding Service 2024

### Undergraduate Students:

- ▶ Emma Scher: 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

## Advancement to Candidacy Committees

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**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

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**Journals:** ACS Catalysis (2022-), ACS Central Science (2024-), Angewandte Chemie (2023-), Chem (2022-), Nature Communications (2024-), Science Advances (2022-), Synlett (2024-)

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

## Workshops, Programs, and Trainings

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**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

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**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