Chiles Wade Downey

Department of Chemistry
University of Richmond

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Professional Experience

2005 to present	**University of Richmond, Richmond, Virginia**
	Denoon Chair in the Natural Sciences 2024 to present
	Professor of Chemistry 2017 to present
	Associate Professor of Chemistry 2011 to 2017
	Assistant Professor of Chemistry 2005 to 2011
	Research: *Silylation-Induced Catalysis; One-Pot Reactions*
	Teaching: Organic Chemistry I, Organic Chemistry II, Advanced Organic Chemistry, Organic Synthesis, Physical Organic Chemistry & Catalysis
2004 – 2005	**Massachusetts Institute of Technology, Cambridge, Massachusetts**
	Postdoctoral Fellowship with Professor Gregory C. Fu
	Research: *Kinetic Resolution of Azomethine Imines via Dipolar Cycloaddition*
1998 – 2003	**Harvard University, Cambridge, Massachusetts**
	Graduate Study with Professor David A. Evans
	Research: *Development of Catalytic Asymmetric Aldol Reactions*
	Teaching: *Head Teaching Fellow*, Organic Chemistry (2001, 2002) *Teaching Fellow*, Organic Chemistry (1998, 1999, 2000)
1996 – 1997	**University of North Carolina, Chapel Hill, North Carolina**
	Undergraduate Study with Professor Michael T. Crimmins
	Research: *An Aldol-Metathesis Strategy for the Construction of a Carbocyclic Nucleoside*
	Teaching: *Teaching Assistant*, General Chemistry II Laboratory (1997)

Education

2003	Ph.D. in Organic Chemistry	Harvard University
2000	A.M. in Chemistry	Harvard University
1997	B.S. in Chemistry	University of North Carolina

Awards and Honors

2024	Distinguished Scholarship Award, University of Richmond
2024	Clarence E. Denoon, Jr. Chair in the Natural Sciences (endowed professorship, University of Richmond)
2022	Claude C. Gravatt and Ann S. Gravatt Faculty Fellowship
2013	Henry Dreyfus Teacher-Scholar Award
2013	Distinguished Educator Award, University of Richmond
2011	Outstanding Mentor Award, School of Arts & Sciences
2006	Professor of the Month, named by Delta Delta Delta sorority
2006	Professor of the Month, named by Alpha Chi Omega sorority
1999, 2001, 2002	Certificate of Distinction in Teaching, Harvard University

1997	Bachelor of Science with Highest Distinction and Highest Honors
1996	Phi Beta Kappa, University of North Carolina
1993 – 1997	Davie Scholar, University of North Carolina

Independent Publications at the University of Richmond
University of Richmond undergraduate coauthors are denoted with an asterisk (*).

27. Mohamad A. Hussein,* Remi D. Graff,* Catherine R. Jalbert,* Grace C. O'Dell,* R. Joseph Coyle,* C. Wade Downey. One-pot silyl imidate formation-N-allylation reactions of amides promoted by trimethylsilyl trifluoromethanesulfonate. *Tetrahedron Letters* **2026**, *185*, Article 156267. https://doi.org/10.1016/j.tetlet.2026.156267

26. Eric Zhou,* Helen L. Xia,* C. Wade Downey. Friedel–Crafts Addition of 3-Alkylated Indoles to Aldehydes: 2-Hydroxyalkylation Promoted by Trimethylsilyl Trifluoromethanesulfonate. *The Journal of Organic Chemistry* **2026**, *91*, 6255-6267. https://doi.org/10.1021/acs.joc.5c03195

25. Katelyn A. Marchione,* Karmen M. Smith,* C. Wade Downey. One-pot enol silane formation-alkylation reactions of ketones promoted by trimethylsilyl trifluoromethanesulfonate: Direct access to β,β-diarylated ketones and related compounds. *Tetrahedron Letters* **2025**, *168*, Article 155679. https://doi.org/10.1016/j.tetlet.2025.155679

24. Helen L. Xia,* Eric Zhou,* Bianca Bicalho,* C. Wade Downey. Friedel–Crafts alkylations of indoles, furans, and thiophenes with arylmethyl acetates promoted by trimethylsilyl trifluoromethanesulfonate. *Synthetic Communications* **2024**, *54*, 1589-1602. https://doi.org/10.1080/00397911.2024.2397717

23. Tyler G. Chong,* Alex V. Helbling,* Remi D. Graff,* C. Wade Downey. One-pot silyl imidate formation-N-alkylation reactions of amides with propargyl propionates. *Tetrahedron Letters* **2023**, *128*, Article 154718. https://doi.org/10.1016/j.tetlet.2023.154718

22. Elizabeth D. Heafner,* Xuechun Lin,* Alexa H. Connors,* Hanyu Zhong,* R. Joseph Coyle,* Yiqi Liu,* C. Wade Downey. One-pot enol silane formation-allylation of ketones promoted by trimethylsilyl trifluoromethanesulfonate. *Synthesis* **2023**, *55*, 2377-2389. https://doi.org/10.1055/a-1959-2505
Invited contribution for the edition of Synthesis honoring the legacy of David Evans.

21. Grant J. Dixon,* Michael R. Rodriguez,* Tyler G. Chong,* Kevin Y. Kim,* C. Wade Downey. Synthesis of β,β-Disubstituted Styrenes via Trimethylsilyl Trifluoromethanesulfonate-Promoted Aldehyde-Aldehyde Aldol Addition-Deformylative Elimination. *The Journal of Organic Chemistry* **2022**, *87*, 14846-14854. https://doi.org/10.1021/acs.joc.2c01458

20. Zachary Z. Oracheff,* Helen L. Xia,* Christopher D. Poff,* Scott E. Isaacson,* C. Wade Downey. Friedel–Crafts addition of indoles to nitrones promoted by trimethylsilyl trifluoromethanesulfonate. *The Journal of Organic Chemistry* **2021**, *86*, 17328-17336. https://doi.org/10.1021/acs.joc.1c01551

19. Danielle E. Sklar,* Alex V. Helbling,* Yiqi Liu,* C. Wade Downey. One-Pot Synthesis of 2-Methylfurans from 3-(Trimethylsilyl)propargyl Acetates Promoted by Trimethylsilyl Trifluoromethanesulfonate. *Tetrahedron Letters* **2021**, *87*, Article 153424. http://dx.doi.org/10.1016/j.tetlet.2021.153424

18. C. Wade Downey, Grace Ann L. Robertson,* Jhonmattew Santa,* Kari. R. Flicker,* William M. Stith.* One-pot silyl ketene imine formation-nucleophilic addition reactions of acetonitrile with acetals and nitrones. *Tetrahedron Letters* **2020**, 61, Article 151537. http://dx.doi.org/10.1016/j.tetlet.2019.151537

17. C. Wade Downey, Grant J. Dixon,* Jared A. Ingersoll,* Claire N. Fuller,* Kenneth W. MacCormac,* Anna Takashima,* Rohina Sediqui.* One-pot enol silane formation-Mukaiyama aldol reactions: crossed aldehyde-aldehyde coupling, thioester substrates, and reactions in ester solvents. *Tetrahedron Letters* **2019**, *60*, Article 151192. http://dx.doi.org/10.1016/j.tetlet.2019.151192

16. C. Wade Downey, Danielle N. Confair,* Yiqi Liu,* Elizabeth D. Heafner.* One-Pot Enol Silane Formation-Alkylation of Ketones with Propargyl Carboxylates Promoted by Trimethylsilyl Trifluoromethanesulfonate. *The Journal of Organic Chemistry* **2018**, *83*, 12931-12938. http://dx.doi.org/10.1021/acs.joc.8b01997

15. C. Wade Downey, Hadleigh M. Glist,* Anna Takashima,* Samuel R. Bottum,* Grant J. Dixon.* Chalcone and cinnamate synthesis via one-pot enol silane formation-Mukaiyama aldol reactions of ketones and acetate esters. *Tetrahedron Letters* **2018**, *59*, 3080-3083. http://dx.doi.org/10.1016/j.tetlet.2018.06.066

14. C. Wade Downey, Alice Y.-K. Lee,* John R. Goodin,* Courtney J. Botelho,* William M. Stith.* Mukaiyama addition of (trimethylsilyl)acetonitrile to dimethyl acetals mediated by trimethylsilyl trifluoromethanesulfonate. *Tetrahedron Letters* **2017**, *58*, 3496-3499. http://dx.doi.org/10.1016/j.tetlet.2017.07.082

13. C. Wade Downey, Jared A. Ingersoll,* Hadleigh M. Glist,* Carolyn M. Dombrowski,* Adam T. Barnett.* One-pot silyl ketene acetal-formation-Mukaiyama–Mannich additions to imines mediated by trimethylsilyl trifluoromethanesulfonate. *European Journal of Organic Chemistry* **2015**, 7287-7291. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201500958/full

12. C. Wade Downey, Christopher D. Poff,* Alissa N. Nizinski.* Friedel−Crafts Hydroxyalkylation of Indoles Mediatedby Trimethylsilyl Trifluoromethanesulfonate. *The Journal of Organic Chemistry* **2015**, *80*, 10364-10369. http://pubs.acs.org/doi/full/10.1021/acs.joc.5b01681

11. C. Wade Downey, Sarah E. Covington,* Derek C. Obenschain,* Evan Halliday,* James T. Rague,* Danielle N. Confair.* Silyl trifluoromethanesulfonate-activated *para*-methoxybenzyl methyl ether as an alkylating agent for thiols and aryl ketones. *Tetrahedron Letters* **2014**, *55*, 5213-5215. doi.org/10.1016/j.tetlet.2014.07.068

10. C. Wade Downey, Erin N. Maxwell,* Danielle N. Confair* Silyl Triflate-Accelerated Additions of Catalytically Generated Zinc Acetylides to *N*-Phenyl Nitrones. *Tetrahedron Letters* **2014**, *55*, 4959-4961. http://www.sciencedirect.com/science/article/pii/S0040403914011563

9. C. Wade Downey, Carolyn M. Dombrowski,* Erin N. Maxwell,* Chelsea L. Safran,* Odamea A. Akomah.* One-Pot Enol Silane Formation-Mukaiyama–Mannich Addition of Ketones, Amides, and Thioesters to Nitrones in the Presence of Trialkylsilyl Trifluoromethanesulfonates. *European Journal of Organic Chemistry* **2013**, 5716-5720. http://onlinelibrary.wiley.com/doi/10.1002/ejoc.201300691/full

8. Lutz F. Tietze, Holger Geissler, C. Wade Downey. "Diethyl Ethoxymethylenemalonate" In *Encyclopedia of Reagents in Organic Synthesis* [Online] **2013**, Tomislav Rovis, Ed.; Wiley & Sons: New York.

7. C. Wade Downey, Smaranda Craciun,* Christina A. Vivelo,* Ana M. Neferu,* Carly J. Mueller,* Stephanie Corsi.* One-Pot Three-Step Thioconjugate Addition-Oxidation-Diels–Alder Reactions of Ethyl Propiolate. *Tetrahedron Letters* **2012**, *53*, 5766-5768. http://www.sciencedirect.com/science/article/pii/S004040391201413X

6. C. Wade Downey, Smaranda Craciun,* Ana M. Neferu,* Christina A. Vivelo,* Carly J. Mueller,* Brian C. Southall,* Stephanie Corsi,* Eric W. Etchill,* Ryan J. Sault.* One-Pot Synthesis of (*Z*)-β-Sulfonyl Enoates from Ethyl Propiolate. *Tetrahedron Letters* **2012**, *53*, 5763-5765. http://www.sciencedirect.com/science/article/pii/S0040403912014104

5. C. Wade Downey, Alan S. Fleisher,* James T. Rague,* Chelsea L. Safran,* Megan E. Venable,* Robert D. Pike. Synthesis of *N*-Acyl-*N*,*O*-Acetals from *N*-Aryl Amides and Acetals in the Presence of TMSOTf. *Tetrahedron Letters* **2011**, *52*, 4756-4759. http://www.sciencedirect.com/science/article/pii/S0040403911011269

4. C. Wade Downey, Miles W. Johnson,* Daniel H. Lawrence,* Alan S. Fleisher,* Kathryn J. Tracy.* Acetic Acid Aldol Reactions in the Presence of Trimethylsilyl Trifluoromethanesulfonate. *The Journal of Organic Chemistry* **2010**, *75*, 5351-5354. http://pubs.acs.org/doi/full/10.1021/jo100828c

3. C. Wade Downey, Brian D. Mahoney,* Vincent R. Lipari.* Trimethylsilyl Trifluoromethanesulfonate-Accelerated Addition of Catalytically Generated Zinc Acetylides to Aldehydes. *The Journal of Organic Chemistry* **2009**, *74*, 2904-2906. http://pubs.acs.org/doi/full/10.1021/jo900102w

2. C. Wade Downey, Miles W. Johnson,* Kathryn J. Tracy.* One-Pot Enol Silane Formation-Mukaiyama Aldol-Type Addition to Dimethyl Acetals Mediated by TMSOTf. *The Journal of Organic Chemistry* **2008**, *73*, 3299-3302. http://pubs.acs.org/doi/full/10.1021/jo8001084

1. C. Wade Downey, Miles W. Johnson.* A Tandem Enol Silane Formation-Mukaiyama Aldol Reaction Mediated by TMSOTf. *Tetrahedron Letters* **2007**, *48*, 3559-3562. http://www.sciencedirect.com/science/article/pii/S0040403907005424

Publications at Previous Institutions (post-doctoral and graduate work)

Suárez, A.; Downey, C. W.; Fu, G. C. Kinetic Resolutions of Azomethine Imines via Copper-Catalyzed [3 + 2] Cycloadditions. *J. Am. Chem. Soc.* **2005**, *127* (32), 11244–11245. https://doi.org/10.1021/ja052876h.

Smith, T. E.; Djang, M.; Velander, A. J.; Downey, C. W.; Carroll, K. A.; Van Alphen, S. Versatile Asymmetric Synthesis of the Kavalactones: First Synthesis of (+)-Kavain. *Org. Lett.* **2004**, *6* (14), 2317–2320. https://doi.org/10.1021/ol0493960.

Evans, D. A.; Seidel, D.; Rueping, M.; Lam, H. W.; Shaw, J. T.; Downey, C. W. A New Copper Acetate-Bis(Oxazoline)-Catalyzed, Enantioselective Henry Reaction. *J. Am. Chem. Soc.* **2003**, *125* (42), 12692–12693. https://doi.org/10.1021/ja0373871.

Evans, D. A.; Downey, C. W.; Hubbs, J. L. Ni(II) Bis(Oxazoline)-Catalyzed Enantioselective Syn Aldol Reactions of *N* -Propionylthiazolidinethiones in the Presence of Silyl Triflates. *J. Am. Chem. Soc.* **2003**, *125* (29), 8706–8707. https://doi.org/10.1021/ja035509j.

Košmrlj, J.; Weigel, L. O.; Evans, D. A.; Downey, C. W.; Wu, J. Unfunctionalized, α-Epimerizable Nonracemic Ketones and Aldehydes Can Be Accessed by Crystallization-Induced Dynamic Resolution of Imines. *J. Am. Chem. Soc.* **2003**, *125* (11), 3208–3209. https://doi.org/10.1021/ja029715n.

Evans, D. A.; Downey, C. W.; Shaw, J. T.; Tedrow, J. S. Magnesium Halide-Catalyzed Anti-Aldol Reactions of Chiral *N* -Acylthiazolidinethiones. *Org. Lett.* **2002**, *4* (7), 1127–1130. https://doi.org/10.1021/ol025553o.

Evans, D. A.; Tedrow, J. S.; Shaw, J. T.; Downey, C. W. Diastereoselective Magnesium Halide-Catalyzed *Anti* -Aldol Reactions of Chiral *N* -Acyloxazolidinones. *J. Am. Chem. Soc.* **2002**, *124* (3), 392–393. https://doi.org/10.1021/ja0119548.

Evans, D. A.; Scheidt, K. A.; Downey, C. W. Synthesis of (−)-Epibatidine. *Org. Lett.* **2001**, *3* (19), 3009–3012. https://doi.org/10.1021/ol016420q.

Evans, D. A.; Rovis, T.; Kozlowski, M. C.; Downey, C. W.; Tedrow, J. S. Enantioselective Lewis Acid Catalyzed Michael Reactions of Alkylidene Malonates. Catalysis by C_2 -Symmetric Bis(Oxazoline) Copper(II) Complexes in the Synthesis of Chiral, Differentiated Glutarate Esters. *J. Am. Chem. Soc.* **2000**, *122* (38), 9134–9142. https://doi.org/10.1021/ja002246+.

Grants Funded at the University of Richmond

2024-2028 American Chemical Society Petroleum Research Fund Type UR Award
Cycloadditions and Cyclizations for the Rapid Construction of Highly Substituted Rings, $70,000

2013-2027 Camille and Henry Dreyfus Foundation: Henry Dreyfus Teacher-Scholar Award
Silyl Triflates in the Development of New One-Pot Reactions for the Production of Synthetic Building Blocks, $60,000

2023-2024 University of Richmond Arts and Sciences Faculty Research Committee Summer Fellowship
A Mild and Simple Alkylation of Ketones, $6,000

2023 A&S Faculty Scholarship, University of Richmond
N-Allylation of Amides Promoted by Trimethylsilyl Trifluoromethanesulfonate, $2,000

2022-2023 Claude C. Gravatt and Ann S. Gravatt Endowed Faculty Fellowship
Cyclization of beta-Amino Alcohols, $6,000

2022 A&S Faculty Scholarship, University of Richmond
Synthesis of 2,3-Dihydroisoxazoles, $2,000

2021-2022 University of Richmond Arts and Sciences Faculty Research Committee Summer Fellowship
Alkylation of Amides with Propargyl Carboxylates, $6,000

2019-2020 University of Richmond Arts and Sciences Faculty Research Committee Summer Fellowship
Styrene Synthesis via Aldol Reactions, $6,000

2018-2019 University of Richmond Arts and Sciences Faculty Research Committee Summer Fellowship
New Reactivity Promoted by Trimethylsilyl Trifluoromethanesulfonate, $6,000

2018-2019 Organic Synthesis, Inc. Grant for Summer Research at an Undergraduate Institution
Rapid Construction of Furans from 3-Silylated Propargyl Carboxylates, $8,000

2015-2020 American Chemical Society Petroleum Research Fund Type UR Award
New Reactivity Mediated by Trimethylsilyl Trifluoromethanesulfonate, $70,000
2011-2015 National Science Foundation Research at Undergraduate Institution (RUI) Grant
Reaction Acceleration, Mediation, and Catalysis by In Situ Silylation, $180,000
2011 Thomas F. and Kate Miller Jeffress Research Grant
Reaction Acceleration, Mediation, and Catalysis by In Situ Silylation, $20,000
2008-2012 American Chemical Society Petroleum Research Fund Type GB Award
Synthesis of Chiral Carboxylic Acid Derivatives via Three-Component Coupling Reactions with Ynoate Electrophiles, $50,000
2007-2011 Research Corporation Cottrell College Science Award
A Tandem Enol Silane Formation-Mukaiyama Aldol Reaction: Controlling Cationic Silicon, $55,377
2005 University of Richmond Arts and Sciences Faculty Research Committee Summer Fellowship
A New Stereoselective Claisen Rearrangement, $5,000
2005 Thomas F. and Kate Miller Jeffress Research Grant
The Development of New Stereoselective Intramolecular Pericyclic Reactions, $20,000
Competitive Renewal, **2006**, $10,000
Competitive Renewal, **2007**, $10,000

External Awards Received by Undergraduate Research Students

2026	**Eric Zhou** *Goldwater Scholar*, awarded to top science undergraduates in the United States
2026	**Anna Johnson** *Goldwater Scholar*, awarded to top science undergraduates in the United States
2025	**Eric Zhou** *Beckman Scholar*, in support of research activity at the University of Richmond
2023	**Helen Xia** *Goldwater Scholar*, awarded to top science undergraduates in the United States
2022	**Helen Xia** *Beckman Scholar*, in support of research activity at the University of Richmond
2020	**Claire Fuller** *Goldwater Scholar*, awarded to top science undergraduates in the United States
2018	**Jack Goodin** *Fulbright Fellowship* to study ecology in Uruguay
2009	**Miles Johnson** *NSF Predoctoral Fellowship*, providing a grant for graduate study
2008	**Miles Johnson** *Goldwater Scholar*, awarded to top science undergraduates in the United States

Oral Presentations of Independent Research with Undergraduates

"One-pot alkylations of ketones, indoles, and benzofurans with arylmethyl carboxylates" C. Wade Downey, 77th Southeastern and 81st Southwest Joint Regional Meeting of the ACS, Orlando, FL, October 26-29, 2025.

"Trimethylsilyl Trifluoromethanesulfonate-Promoted Alkylations of In Situ-Generated Enol Silanes and Silyl Imidates with Allyl Propionates" C. Wade Downey, 76th Southeastern Regional Meeting of the ACS, Atlanta, GA, October 23-26, 2024.

"Styrene synthesis via crossed aldehyde-aldehyde aldol coupling promoted by trimethylsilyl trifluoromethanesulfonate" C. Wade Downey, 75th Southeastern Regional Meeting of the ACS, Durham, NC, October 18-21, 2023.

"Friedel–Crafts additions of N-alkylated indoles to nitrones to form 1:1 products" C. Wade Downey, 73rd Southeastern Regional Meeting of the ACS, Birmingham, AL, November 10-13, 2021.

"One-pot enol silane formation-Mukaiyama aldol reactions promoted by trimethylsilyl trifluoromethanesulfonate" C. Wade Downey, 71st Southeastern Regional Meeting of the ACS, Savannah, GA, October 20-24, 2019.

"One-pot enol silane formation-α-alkylation reactions promoted by trimethylsilyl trifluoromethanesulfonate: An SN1 reaction with secondary electrophiles" C. Wade Downey, Colby College, February 22, 2019.

"Alkynylated ketones through in situ enol silane formation-alkylation reactions of with propargyl carboxylates" C. Wade Downey, 70th Southeastern Regional Meeting of the ACS, Augusta, GA, October 31-November 3, 2018.

"Alkylation of ketones with propargyl carboxylates promoted by trimethylsilyl trifluoromethanesulfonate" C. Wade Downey, 256th American Chemical Society National Meeting, Boston, MA, August 19-23, 2018.

"One-pot enol silane formation-Mukaiyama-Mannich reactions of thioesters and related species mediated by trimethylsilyl trifluoromethanesulfonate" C. Wade Downey, 69th Southeastern Regional Meeting of the ACS, Charlotte, NC, November 7-11, 2017.

"Trimethylsilyl trifluoromethanesulfonate as both silylating agent and Lewis acid catalyst in organic reactions new and old" C. Wade Downey, 254th American Chemical Society National Meeting, Washington, DC, August 20-24, 2017.

"Alpha Substitution of Nitriles Mediated by Trimethylsilyl Trifluoromethanesulfonate" C. Wade Downey, 68th Southeastern Regional Meeting of the ACS, Columbia, SC, October 23-26, 2016.

"Friedel–Crafts hydroxyalkylation of N-alkylindoles with aryl aldehydes: Isolation of 1:1 adduct through a silyl triflate-mediated reaction" C. Wade Downey, 67th Southeastern Regional Meeting of the ACS, Memphis, TN, November 4-7, 2015.

"When acetals go wrong: Serendipitous discovery of new reactions through the treatment of acetals with TMSOTf" C. Wade Downey, 66th Southeastern Regional Meeting of the ACS, Nashville, TN, October 16-19, 2014.

"Addition of Enol Silanes, Silyl Ketene Acetals, and Zinc Acetylides to Nitrones under Silylative Conditions" C. Wade Downey, 65th Southeastern Regional Meeting of the ACS, Atlanta, GA, November 12-16, 2013.

"Development of a One-Pot, Three-Step Thioconjugate Addition-Oxidation-Diels–Alder Cycloaddition Reaction" C. Wade Downey, 64th Southeastern Regional Meeting of the ACS, Raleigh, NC, November 14-17, 2012.

"Aldol Additions of Carboxylic Acids in the Presence of Trimethylsilyl Trifluoromethanesulfonate" C. Wade Downey, Miles W. Johnson,* Daniel H. Lawrence,* Alan S. Fleisher,* Kathryn J. Tracy,* 66th Southwest and 62nd Southeastern Regional Meeting of the ACS, New Orleans, LA, November 30-December 4, 2010.

"Carbonyl Attack by Enolate and Acetylide Nucleophiles in the Presence of Trimethylsilyl Trifluoromethanesulfonate" C. Wade Downey, College of William & Mary, March 27, 2009.

"In Situ Silylation as an Accelerant in Reactions of Enolate and Acetylide Nucleophiles" C. Wade Downey, Miles W. Johnson,* Brian D. Mahoney,* Kathryn J. Tracy,* Vincent R. Lipari,* 60th Southeast Regional ACS Meeting, Nashville, TN, November 12-15, 2008.

"An In Situ Enol Silane Formation-Mukaiyama Aldol Reaction Mediated by TMSOTf" C. Wade Downey, George Mason University, April 24, 2008.

Poster Presentations – Regional and National Meetings

"Unusual reactions mediated by a not-so-unusual reagent: New synthetic methods with TMSOTf" C. Wade Downey, 3rd Symposium for Recent Camille and Henry Dreyfus Teacher-Scholars, New York, NY, October 24, 2014.

"An In Situ Enol Silane Formation-Mukaiyama Aldol Reaction Mediated by TMSOTf" C. Wade Downey, Miles W. Johnson,* 234th National ACS Meeting, Boston, MA, August 19-23, 2007.

"An In Situ Enol Silane Formation-Mukaiyama Aldol Reaction Mediated by TMSOTf: Addition to Aldehydes and Dimethyl Acetals" C. Wade Downey, Miles W. Johnson,* Kathryn J. Tracy,* 59th Southeast Regional ACS Meeting, Greenville, SC, United States, October 24-27, 2007.

Undergraduate Student Oral Presentations – Regional and National Meetings
University of Richmond undergraduate coauthors are denoted with an asterisk (*).

"Silyloxyalkylation of 1,3-disubstituted indoles promoted by trimethylsilyl trifluoromethanesulfonate" Zhou, Eric;* Downey, C. Wade, 77th Southeastern and 81st Southwest Joint Regional Meeting of the ACS, Orlando, FL, October 26-29, 2025.

"Friedel-Crafts alkylation of indoles and benzofurans with aromatic and non-aromatic secondary acetates and tertiary alcohols" Xia, Helen L.;* Downey, C. Wade, 268th American Chemical Society National Meeting, New Orleans, LA, March 23-27, 2024.

"Friedel-Crafts alkylation of indoles and benzofurans with secondary acetates and tertiary alcohols" Xia, Helen L.;* Downey, C. Wade, 75th Southeastern Regional Meeting of the ACS, Durham, NC, October 18-21, 2023.

"Friedel–Crafts alkylation of indoles with diarylmethyl acetates promoted by trimethylsilyl trifluoromethanesulfonate" Xia, Helen L.;* Downey, C. Wade, 74th Southeastern Regional Meeting of the ACS, San Juan, PR, October 19-22, 2022.

Undergraduate Student Poster Presentations – Regional and National Meetings
University of Richmond undergraduate coauthors are denoted with an asterisk (*).

"Povarov reactions of chiral 4-isoxazolines with nitrones" Johnson, Anna;* Rausch, Lauren;* Downey, C. Wade, 77th Southeastern and 81st Southwest Joint Regional Meeting of the ACS, Orlando, FL, October 26-29, 2025.

"Generation of congested aldol products through a one-pot enol silane-formation-Mukaiyama aldol reaction" Dulam, Sai Tanusri;* Miller, Owen;* Downey, C. Wade, 77th Southeastern and 81st Southwest Joint Regional Meeting of the ACS, Orlando, FL, October 26-29, 2025.

"Net carbonyl ene reactions of alpha-methylstyrene with aldehydes" Mock, Alexandra;* Downey, C. Wade, 77th Southeastern and 81st Southwest Joint Regional Meeting of the ACS, Orlando, FL, October 26-29, 2025.

"One-pot alkylation of amides with allyl propionates: regio- and chemoselectivity" Graff, Remi D.;* Hussein, Mohamed;* Jalbert, Catherine;* Coyle, R. Joseph;* Downey, C. Wade, 77th Southeastern and 81st Southwest Joint Regional Meeting of the ACS, Orlando, FL, October 26-29, 2025.

"Trimethylsilyl trifluoromethanesulfonate-promoted one-pot enol silane-formation-alkylation reactions of ketones" Marchione, Katelyn A.;* Smith, Karmen M.;* Downey, C. Wade, 76th Southeastern Regional Meeting of the ACS, Atlanta, GA, October 23-26, 2024.

"Friedel–Crafts 2-silyloxylalkylation of 3-substituted indoles" Zhou, Eric;* Xia, Helen L.;* Downey, C. Wade, 76th Southeastern Regional Meeting of the ACS, Atlanta, GA, October 23-26, 2024.

"Synthesis of 4-isoxazolines through a one-pot heteroconjugate addition-cyclization-elimination reaction" Strigel, S. Mark;* Hughes, Greg M.;* Downey, C. Wade, 76th Southeastern Regional Meeting of the ACS, Atlanta, GA, October 23-26, 2024.

"Propargyl amides from trimethylsilyl trifluoromethanesulfonate-promoted additions of secondary amides to propargyl propionates" Chong, Tyler G.;* Helbling, Alex V.;* Graff, Remi D.;* Downey, C. Wade, 75th Southeastern Regional Meeting of the ACS, Durham, NC, October 18-21, 2023.

"One-pot enol silane formation-alkylation reactions of ketones and (diaryl)methyl acetates" Marchione, Katie;* Smith, Karmen;* Downey, C. Wade, 75th Southeastern Regional Meeting of the ACS, Durham, NC, October 18-21, 2023.

"Synthesis of beta-hydroxyaminoalcohols from ketones" Strigel, S. Mark;* Lambertson, Olivia;* Goodner, Ramsey;* Downey, C. Wade, 75th Southeastern Regional Meeting of the ACS, Durham, NC, October 18-21, 2023.

"Trimethylsilyl trifluoromethanesulfonate-promoted one-pot synthesis of 4-isoxazolines from chalcones and N-benzylhydroxylamine" Hughes, Greg; Downey, C. Wade, 75th Southeastern Regional Meeting of the ACS, Durham, NC, October 18-21, 2023.

"Synthesis of 2,3-dihydroisoxazoles from N-benzylhydroxylamine and chalcones promoted by trimethylsilyl trifluoromethanesulfonate" Hughes, Greg;* Lambertson, Olivia;* Goodner, Ramsey;* Downey, C. Wade, 74th Southeastern Regional Meeting of the ACS, San Juan, PR, October 19-22, 2022.

"Trimethysilyl trifluoromethanesulfonate-promoted alkylation of amides with allyl and propargyl propionate" Chong, Tyler G.;* Hussein, Mohamad;* Helblng, Alex V.;* Coyle, R. Joseph;* Downey, C. Wade, 74th Southeastern Regional Meeting of the ACS, San Juan, PR, October 19-22, 2022.

"Synthesis of Styrenes from Aldehyde-Aldehyde Aldol Coupling Products" Rodriguez, Michael;* Chong, Tyler G.;* Dixon, Grant J.;* Downey, C. Wade, 73rd Southeastern Regional Meeting of the ACS, Birmingham, AL, November 10-13, 2021.

"One-pot Synthesis of Furans from 3-(trimethylsilyl)propargyl Carboxylates" Helbling, Alex V.;* Sklar, Danielle E.;* Downey, C. Wade, 73rd Southeastern Regional Meeting of the ACS, Birmingham, AL, November 10-13, 2021.

"Enol Silane Formation-allylation Reactions Promoted by Trimethylsilyl Trifluoromethanesulfonate" Coyle, Joseph R.;* Heafner, Elizabeth D.;* Lin, Xuechun;* Zhong, Hanyu;* Downey, C. Wade, 73rd Southeastern Regional Meeting of the ACS, Birmingham, AL, November 10-13, 2021.

"Addition of Indoles to Nitrones via Friedel–Crafts Silyloxyaminoalkylation" Xia, Helen L.;* Oracheff, Zachary Z.;* Poff, Christopher D.;* Isaacson, Scott E.;* Downey, C. Wade, 73rd Southeastern Regional Meeting of the ACS, Birmingham, AL, November 10-13, 2021.

"Synthesis of 2,3-Dihydroisoxazoles from Ketones and N-benzyl Nitrones" Goodner, Ramsey M.;* Downey, C. Wade, 73rd Southeastern Regional Meeting of the ACS, Birmingham, AL, November 10-13, 2021.

"Crossed Aldol reactions of aldehydes and subsequent styrene formation promoted by trimethylsilyl trifluoromethanesulfonate" Dixon, Grant J.;* Downey, C. Wade, 71st Southeastern Regional Meeting of the ACS, Savannah, GA, October 20-23, 2019.

"One-pot furan synthesis from ketones and propargyl acetates" Sklar, Danielle E.;* Downey, C. Wade, 71st Southeastern Regional Meeting of the ACS, Savannah, GA, October 20-23, 2019.

"Nitrile aldol reactions mediated by trimethylsilyl trifluoromethanesulfonate" Bottum, Samuel R.;* Britt, Kylie M.;* Downey, C. Wade, 71st Southeastern Regional Meeting of the ACS, Savannah, GA, October 20-23, 2019.

"Direct allylation of ketones with trimethylsilyl trifluoromethanesulfonate and triethylamine" Zhong, Ivy;* Heafner, Elizabeth D.;* Lin, Alethea;* Downey, C. Wade, 71st Southeastern Regional Meeting of the ACS, Savannah, GA, October 20-23, 2019.

"In situ silyl ketene acetal formation-substitution reactions of N-acetyloxazolidinone" Kim, Kevin Y.;* Downey, C. Wade, 70th Southeastern Regional Meeting of the ACS, Augusta, GA, October 31-November 3, 2018.

"One-pot enol silane formation-alkylation of ketones with propargyl and allyl carboxylates" Heafner, Elizabeth D.;* Confair, Danielle N.;* Liu, Yiqi,* Downey, C. Wade, 70th Southeastern Regional Meeting of the ACS, Augusta, GA, October 31-November 3, 2018.

"Aldol condensation and nitrile aldol reactions promoted by trimethylsilyl trifluoromethanesulfonate" Bottum, Samuel R.;* Downey, C. Wade 70th Southeastern Regional Meeting of the ACS, Augusta, GA, October 31-November 3, 2018.

"Alkylation-cyclization-aromatization reactions of ketones with (3-silyl)propargyl carboxylates to yield 2-methylfurans" Sklar, Danielle;* Downey, C. Wade 70th Southeastern Regional Meeting of the ACS, Augusta, GA, October 31-November 3, 2018.

"Alkylations of ketones with propargyl carboxylates mediated by TMSOTf" Downey, C. Wade, Heafner, Elizabeth;* Liu, Yiqi;* Sklar, Danielle;* Lin, Xuechun, 69th Southeastern Regional Meeting of the ACS, Charlotte, NC, November 7-11, 2017.

"Addition reactions of nitriles to aldehydes and acetals mediated by TMSOTf" Stith, William M.;* Britt, Kylie M.;* Downey, C. Wade, 69th Southeastern Regional Meeting of the ACS, Charlotte, NC, November 7-11, 2017.

"Aldol Condensations Mediated by Trimethylsilyl Trifluoromethanesulfonate" Takashima, Anna;* Glist, Hadleigh M.;* Downey, C. Wade, 68th Southeastern Regional Meeting of the ACS, Columbia, SC, October 23-26, 2016.

"Alkylation of ketones and thioesters with propargyl andallyl carboxylates" Downey, Chiles W.; Liu, Yiqi;* Lin, Xuechun;* Confair, Danielle,* 68th Southeastern Regional Meeting of the ACS, Columbia, SC, October 23-26, 2016.

"Friedel–Crafts additions of indoles to nitrones" Poff, Christpher D.;* Downey, C. Wade, 68th Southeastern Regional Meeting of the ACS, Columbia, SC, October 23-26, 2016.

"One-pot enol silane-formation-aldol condensation and Mannich addition reactions mediated by trimethylsilyl trifluoromethanesulfonate and amine base" Glist, Hadleigh M.;* Ingersoll, Jared A.;* Downey, C. Wade, 67th Southeastern Regional Meeting of the ACS, Memphis, TN, November 4-7, 2015.

"TMSOTf-mediated additions of acetonitrile to aldehydes, acetals, and nitrones" Santa, Jhonmattew;* Stith, William M.;* Botelho, Courtney J.;* Mueller, Carly J.;* Lee, Alice;* Downey, C. Wade, 67th Southeastern Regional Meeting of the ACS, Memphis, TN, November 4-7, 2015.

"Trimethylsilyl trifluoromethanesulfonate-mediated additions of indoles to aldehydes and nitrones" Poff, Christopher D.;* Nizinski, Alissa N.;* Downey, C. Wade, 67th Southeastern Regional Meeting of the ACS, Memphis, TN, November 4-7, 2015.

"The reactivity of propargyl alcohols and propargyl acetates in the presence of trimethylsilyl trifluoromethanesulfonate" Confair, Danielle N.;* Downey, C. Wade, 67th Southeastern Regional Meeting of the ACS, Memphis, TN, November 4-7, 2015.

"Silyl tiflate-mediated openings of epoxides and synthesis of chalcones" Glist, Hadleigh M.;* Yeutter, Nicholas C.;* Downey, C. Wade, 66th Southeastern Regional Meeting of the ACS, Nashville, TN, October 16-19, 2014.

"Trimethylsilyl trifluoromethansulfonate-mediated additions of indoles to aldehydes" Poff, Christopher D.;* Nizinski, Alissa N.;* Downey, Wade C., 66th Southeastern Regional Meeting of the ACS, Nashville, TN, October 16-19, 2014.

"One-pot enol silane formation-Mukaiyama-Mannich and Mukaiyama aldol reactions of thioesters and ketones in the presence of silyl triflates" Ingersoll, Jared A.;* Dombrowski, Carolyn M.;* Barnett, Adam T.;* Downey, Wade C., 66th Southeastern Regional Meeting of the ACS, Nashville, TN, October 16-19, 2014.

"Reactions of unexpected nucleophiles with aldehydes: acetate-catalyzed additions by α-silyl nitriles and TMSOTf-catalyzed additions by indoles" Mueller, Carly J.;* Nizinski, Alissa N.;* Downey, Wade C., 65th Southeast Regional Meeting of the American Chemical Society, Atlanta, GA, United States, November 13-16, 2013.

"TMSOTf-accelerated opening of epoxides with halogens and α-hydroxylation of ketones" Barnett, Adam T.;* Yeutter, Nicholas C.;* Downey, Wade C., 65th Southeast Regional Meeting of the American Chemical Society, Atlanta, GA, United States, November 13-16, 2013.

"One-pot enol silane formation-Mukaiyama aldol and Mukaiyama-Mannich reactions of ketones and thioesters" Dombrowski, Carolyn M.;* Ingersoll, Jared A.;* Downey, Wade C., 65th Southeast Regional Meeting of the American Chemical Society, Atlanta, GA, United States, November 13-16, 2013.

"Zinc acetylides in the presence of TMSOTf: Addition to nitrones and alkylation with methyl ethers" Maxwell, Erin N.;* Obenschain, Derek C.;* Downey, Wade C., 65th Southeast Regional Meeting of the American Chemical Society, Atlanta, GA, United States, November 13-16, 2013.

"Toward Chiral Auxiliary-Controlled One-Pot Three-Step Thioconjugate Addition-Oxidation-Diels–Alder Cycloaddition Reactions of Propiolates" Derek C. Obenschain,* Carly J. Mueller,* Ana M. Neferu,* C. Wade Downey, 64th Southeastern Regional Meeting of the ACS, Raleigh, NC, November 14-17, 2012.

"One-Pot Enol Silane Formation-Mannich-Type Addition of Ketones, Thioesters, and Amides to Nitrones" Carolyn M. Dombrowski,* Erin N. Maxwell,* Chelsea L. Safran,* Odamea A. Akomah,* C. Wade Downey, 64th Southeastern Regional Meeting of the ACS, Raleigh, NC, November 14-17, 2012.

"One-Pot Three-Step Conjugate Addition-Oxidation-Diels–Alder Reactions of Ethyl Propiolate" Ana M. Neferu,* Christina A. Vivelo,* Smaranda Craciun,* Carly J. Mueller,* C. Wade Downey, 244th National ACS Meeting & Exposition, Philadelphia, PA, August 19-23, 2012.

"One-Pot Three-Step Conjugate Addition-Oxidation-Diels–Alder Reactions of Ethyl Propiolate" Ana M. Neferu,* Christina A. Vivelo,* Smaranda Craciun,* C. Wade Downey, 243rd National ACS Meeting, San Diego, CA, March 25-March 29, 2012.

"One-Pot Three-Step Conjugate Addition-Oxidation-Diels–Alder Reactions of Ethyl Propiolate" Christina A. Vivelo,* Ana M. Neferu,* Smaranda Craciun,* Stephanie Corsi,* C. Wade Downey, 63rd Southeast Regional Meeting of the ACS, Richmond, VA, United States, October 26-29, 2011.

"One-Pot Silyl Enol Ether Formation-Alkylation Reactions of Ketones and Esters to *N*,*O*-Acetals and Vinylogous Acetals in the Presence of TMSOTf" Chelsea L. Safran,* Evan Halliday,* C.

Wade Downey, 63rd Southeast Regional Meeting of the ACS, Richmond, VA, United States, October 26-29, 2011.

"Zinc-Catalyzed Addition of Terminal Alkynes to Dimethyl Acetals in the Presence of TMSOTf" James T. Rague,* Chelsea L. Safran,* C. Wade Downey, 66th Southwest and 62nd Southeastern Regional Meeting of the ACS, New Orleans, LA, November 30-December 4, 2010.

"Toward a One-Pot Heteroconjugate Addition-Oxidation-Diels–Alder Reaction" Smaranda Craciun,* Christina A. Vivelo,* Stephanie Corsi,* Brian C. Southall,* Eric W. Etchill,* C. Wade Downey, 66th Southwest and 62nd Southeastern Regional Meeting of the ACS, New Orleans, LA, November 30-December 4, 2010.

"TMSOTf-Mediated Reactions Additions of Silylated Nucleophiles to Carbon-Oxygen Pi Bonds" Alan S. Fleisher,* James T. Rague,* Chelsea L. Safran,* Megan E. Venable,* C. Wade Downey, 66th Southwest and 62nd Southeastern Regional Meeting of the ACS, New Orleans, LA, November 30-December 4, 2010.

"Toward a One-Pot Heteroconjugate Addition-Oxidation-Diels–Alder Reaction" C. Wade Downey, Smaranda Craciun,* Stephanie Corsi,* Eric W. Etchill,* Brian C. Southall,* 239th National ACS Meeting, San Francisco, CA, March 21-25, 2009.

"Toward a One-Pot Heteroconjugate Addition-Oxidation-Diels–Alder Reaction" C. Wade Downey, Smaranda Craciun,* Stephanie Corsi,* Eric W. Etchill,* Brian C. Southall,* 238th National ACS Meeting, Washington, DC, August 16-20, 2009.

"In Situ Enol Silane Formation-Mukaiyama Addition to Dimethyl Acetals" Miles W. Johnson,* Kathryn J. Tracy,* C. Wade Downey, 60th Southeast Regional ACS Meeting, Nashville, TN, November 12-15, 2008.

"$ZnBr_2$-Catalyzed Addition of Alkynes to Aldehydes with TMSOTf as an Accelerant" Brian D. Mahoney,* Vincent R. Lipari,* C. Wade Downey, 60th Southeast Regional ACS Meeting, Nashville, TN, November 12-15, 2008.

"TMSOTf as an Accelerant for $ZnBr_2$-Catalyzed Addition of Alkynes to Aldehydes" Brian D. Mahoney,* C. Wade Downey, 59th Southeast Regional ACS Meeting, Greenville, SC, United States, October 24-27, 2007.

Professional Service

• Reviewer for the journals *Journal of the American Chemical Society*, *Organic Letters*, *Journal of Organic Chemistry*, *Chemical Communications*, *Advanced Synthesis & Catalysis*, *Tetrahedron*, *Tetrahedron Letters*, *Asian Journal of Organic Chemistry*, *SynLett, Letters in Organic Chemistry*, *Chinese Journal of Chemistry*, *Molecules*, *Industrial & Engineering Chemistry Research, Chemistry: An Asian Journal*

• Reviewer for grant proposals for Research Corporation, American Chemical Society Petroleum Research Fund, National Science Foundation.

University Service

Academic Policies and Planning Committee (APPC)	2025-2028
Assistant Department Chair, Chemistry	2025-2026

Richmond Scholars Selection Committee 2020, 2023, 2024, 2025, 2026
Graded Chemistry Research Course (Chem 321) Coordinator 2017-2026
Sigma Pi Pi Honor Society faculty advisor 2006-2026
Organic Chemistry Registration Override Coordinator 2009-2026
Organic Chemistry Transfer Request Coordinator 2009-2026
Health Professionals Advisory Committee (HPAC) 2024-2025
Faculty Hearing Committee 2024-2025
Chemistry Alumni Research Symposium Organizer 2013, 2015, 2018, 2023, 2025
UR Chemistry High School Student Workshop Instructor 2007-2025
Phi Beta Kappa UR Chapter Nominating Committee 2024-2025
Chemistry Faculty Search Committee (**Chair, 2020-2021; Co-Chair, 2017-2018**)
2007-2008, 2008-2009, 2011-2012, 2013-2014, 2017-2018, 2020-2021, 2024-2025
A&S Tenure and Promotion Committee (**Co-Chair, 2021-2022; Chair 2022-2023**)
2021-2024
Diversity and Search Advocate for Biology Director Search 2023
Beckman Scholars Selection Committee **(Chair, 2017)** 2008, 2010, 2014, 2017, 2020, 2023
Ad Hoc Chemistry Department Flexible Models Committee (**Chair, 2022*)*** 2022
Phi Beta Kappa UR Chapter President (two terms) 2019-2021
University Cultural Affairs Committee 2018-2021
Mace and CJ Gray Award Selection Committee 2020-2021
Department of Chemistry Peer Evaluation Committee 2012-2014, 2017-2019
A&S Sabbatical Fellowships Committee 2019
Phi Beta Kappa UR Chapter Vice President 2018-2019
Undergraduate Research Committee (**Chair, 2 terms 2016-2018)** 2009-2012, 2015-2018
Department of Chemistry Responsible Conduct of Research Committee 2014-2017
ACS Local Section K-12 Science Teaching Awards Committee 2011-2016
University Admissions Committee (**Chair, 2 terms, 2013-2015**) 2012-2015
Admitted Students Research Introduction Host 2010-2012, 2015
Undergraduate Research Committee, Ad Hoc Reviewer 2014
Howard Hughes Medical Institute Summer Fellowships Committee (**Chair**) 2012
Grainger Science Summer Fellowship Selection Committee 2010-2012
Science Graduate School Student Preparation Panel 2009
University Advising Assessment Committee 2006-2007
MCAT Review Instructor for VA-NE Alliance 2006

Past and Current Undergraduate Collaborators at the University of Richmond

Name	**Project**	**Career Plans**
Daniel Lawrence ’07	Enol Silane	High School Science Teacher
Ryan Sault ’07	Diels–Alder	Osteopath School – Lake Erie
Eric Etchill ’08	Diels–Alder	Medical School – Pittsburgh
Brian Southall ’08	Diels–Alder	Health Care
Katie Tracy ’08	Enol Silane	Medical School – UMDNJ-SOM
Odamea Akomah ’09	Enol Silane	Health Care – Sloan Kettering
Stephanie Corsi ’09	Diels–Alder	Physician Assistant – NYU Hospitals
Miles Johnson ’09	Enol Silane	Chemistry Grad School – UC – Berkeley
Brian Mahoney ’09	Alkynylation	Chemistry Grad School – U. Pennsylvania
Vin Lipari ’10	Alkynylation	Medical School - NYCOM
Dave Widmayer ’10	Diels–Alder	Industry - Polymedix
Smaranda Craciun ’11	Diels–Alder	Chemistry Grad School – Harvard University

Megan Venable ’11	Enol Silane	Computer Technology
Jimmy Rague ’11	Alkynylation	Medical School – Wake Forest University
Alan Fleisher ’11	Enol Silane	MBA program – Villanova
Chelsea Safran ’12	Alkynylation	Nursing School – University of Pittsburgh
Christina Vivelo ’12	Diels–Alder	Public Health Grad School – Johns Hopkins
Ana Neferu ’13	Diels–Alder	Chemistry Grad School – St. Andrew’s
Sarah Covington ’13	Enol Silane	Science Education Grad School – Maryland
Rohina Sediqui ’13	Alkynylation	K-12 Teacher – Afghanistan
Carolyn Dombrowski, ’14	Enol Silane	Science Consulting – Ernst & Young
Evan Halliday, ’14	Alkynylation	Transfer – Rutgers University
Erin Maxwell, ’14	Enol Silane	Pharmacy School – UNC-Chapel Hill
Carly Mueller, ’14	Silyl Nitrile	Physical Therapy School – Columbia U.
Alissa Nizinski, ’14	Indole Alkylation	Medical School – University of Buffalo
Derek Obenschain, ’14	Diels-Alder	Chemistry Grad School – Washington
James Maiarana, ’14	Enol Silane	Medical School – Boston University
Adam Barnett ’15	Enol Silane	Chemistry Grad School – Utah
Courtney Botelho ’15	Silyl Nitrile	Envr. Sci. Grad School – Wisconsin
Jared Ingersoll ’15	Enol Silane	Medical School—Armed Services Academy
Nick Yeutter ’15	Epoxide Opening	Medical School—University of Nebraska
Danielle Confair ’16	Alkynylation	Chemistry Grad School – Yale University
Hadleigh Glist ’16	Enol Silane	Nursing Ph.D. School – Columbia University
Alice Lee ’16	Silyl Nitrile	Accounting
Ken MacCormac ’16	Enol Silane	Dental School – University of Connecticut
Chris Poff ’17	Indole Alkylation	Chemistry Grad School – Emory
Matt Santa ’17	Silyl Nitrile	Computer Science - Google
Anna Takashima ’17	Enol Silane	Chemistry Grad School – KU Leuven (Belgium)
Jack Goodin ’18	Silyl Nitrile	Philosophy Grad School
Will Stith ’18	Silyl Nitrile	Chemistry Grad School – University of Michigan
Yiqi Liu ’18	Alkynylation	Chemistry Grad School – Northwestern University
Xuechun Alethea Lin ’18	Allylation	Financial Math Grad School – University of Chicago
Kylie Britt ’19	Silyl Nitrile	Chemistry Grad School – N. C. State
Grant Dixon ’19	Enol Silane	Chemistry Grad School – Washington
Kari Flicker ’19	Silyl Nitrile	Medical School – Eastern Virginia Medical School
Elizabeth Heafner ’19	Ketone Alkynylation and Allylation	Chemistry Grad School – UC-Berkeley
Zach Oracheff ’19	Indole Alkylation	Chemistry Industry
Sam Bottum ’20	Silyl Nitrile	Chemistry Grad School – UNC-Chapel Hill
Kevin Kim ’20	Styrene Synthesis	Medical School – Virgina Commonwealth University
Dani Sklar ’20	Furan	Chemistry Grad School – UNC-Chapel Hill

	Synthesis	
Claire Fuller ’21	Aldol	Chemistry Grad School – Cambridge, UK
Scott Isaacson ’21	Indole Alkylation	Chemistry Grad School – Northwestern University
Grace Ann Robertson ’21	Silyl Nitrile	Medical School – University of Tennessee
Hanyu Ivy Zhong ’21	Ketone Allylation	Medical School – Ponce Health Sciences University
Bianca Bicalho ’22	Indole alkylation	Med School – Touro College of Osteopathic Medicine
Ramsey Goodner ’22	Dihydro-isoxazoles	Chemistry Grad School – Yale University
Ryan Kern ’22	Indole Alkylation	Medical School – Hackensack Meridian
Michael Rodriguez ’22	Styrene Synthesis	Chemistry Grad School – UNC-Chapel Hill
Tyler Chong ’23	Styrene Synthesis, Amide Propargylation	Chemistry Grad School – Columbia University
Joseph Coyle ’23	Allylation	Law School – University of Richmond
Alex Helbling ’23	Furan Synthesis, Amide Propargylation	Medical School – University of North Carolina
Mohamad Hussein ’23	Amide Allylation	Chemistry Grad School – University of Delaware
Olivia Lambertson ’23	Amino alcohol cyclization	NIH Postbaccalaureate Fellowship
Alexa Connors ’24	Allylation	Healthcare Business and Marketing
Greg Hughes ’24	Isoxazoline Synthesis	Chemistry Grad School – UNC-Chapel Hill
Helen Xia ’24	Indole Alkylation	MD-Ph.D. Program – University of Texas-Southwestern Medical Center/NIH
Katie Marchione ’25	Ketone alkylation	Medical School – Hackensack Meridian
Joshua Pae ’25	Carbamate alkynylation	Medical School
Lauren Rausch ’25	Povarov reaction	Medical School
Karmen Smith ’25	Ketone alkylation	Pharmacy School – Howard University
Mark Strigel ’25	Isoxazoline Synthesis	Medical School – University of Maryland
Sai Dulam ’26	Hindered Aldol	Medical School
Remi Graff ’26	Amide Allylation	Chemistry Grad School – Northwestern University
Cat Jalbert ’26	Amide Allylation	Law School

Allie Mock ’26	Styrene ene	Chemistry Grad School – University of North Carolina
Anna Johnson ’27	Povarov	Chemistry Grad School
Emma Kunschner	Isoxazoline Synthesis	Medical School
Eric Zhou ’27	2-Indole Friedel–Crafts	M.D.-Ph.D. program
Owen Brown ’28	Olefin ene	Chemistry Grad School
Mary Michele ’28	Heterocycle Friedel–Crafts	Med school
Owen Miller ’28	Hindered Aldol	Chemistry Grad School
Grace O’Dell	Amide Alkylation	Med school