

Aditya M. Kunjapur

Assistant Professor, Chemical and Biomolecular Engineering, University of Delaware

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Education

- 2015 - 2018 Post-Doctoral Research Fellow, Genetics, Harvard Medical School
 Advisor: Prof. George M. Church
 Focus: Employing evolutionary techniques to improve genetic code expansion for biocontainment
- 2010 - 2015 Ph.D., Chemical Engineering, Massachusetts Institute of Technology (MIT)
 Advisor: Prof. Kristala L. J. Prather
 Thesis: Microbial engineering for aldehyde biosynthesis
- 2006 - 2010 B.S., Chemical Engineering with Highest Honors, University of Texas at Austin (UT)
 Minor: Business Foundations (MAN, MKT, FIN, LEB, ACC, MIS, ECO, SDS)

Professional Experience

Primary Role

- 2019 - Assistant Professor, Chemical and Biomolecular Engineering, University of Delaware (UD)

Other Academic Affiliations

- 2022 - Faculty Member, Microbiology Graduate Program, UD
 2021 - Council Member, Engineering Biology Research Consortium
 2020 - Thrust Co-Director, Center for Plastics Innovation, UD
 2020 - Member, Engineering Biology Research Consortium
 2020 - Steering Committee Member, Chemistry-Biology Interface Predoctoral Program, UD
 2019 - Faculty Trainer, Chemistry-Biology Interface Predoctoral Program, UD
 2019 - Affiliated Faculty Member, Delaware Environmental Institute, UD
 2019 - Affiliated Faculty Member, Delaware Biotechnology Institute, UD

Industrial Experiences

- 2021 - Co-Founder, Nitro Biosciences, Inc.
 2016 Consultant, EnEvolv (acquired by Zymergen in 2020)
 2013 Intern Associate, Terawatt Ventures
 2006 - 2010 Intern (5 summers), Shell Upstream Americas and ExxonMobil Production

Teaching Experience

- SP 23 Instructor, CHEG420: Biochemical Engineering, UD
 SP 20/21/22 Instructor, CHEG621: Metabolic Engineering, UD
 F 19/20/22 Co-Instructor, CHEG332: Chemical Engineering Kinetics, UD
 SP 13 Teaching Assistant (TA), Graduate Kinetics and Reactor Design, MIT Chemical Engineering
 SU 11/12 Co-Instructor, "Microbial Chemical Factories", MIT Educational Studies Program
 SU 11/12 Co-TA, "Fermentation Tech." & "Downstream Processing", MIT Short Courses
 SP 09 TA, Material and Energy Balances, UT Chemical Engineering
 F 08, SP 09 Tutor and Grader, Transport Phenomena, UT Chemical Engineering

Selected Awards

- 2023 Society for Industrial Microbiology and Biotechnology (SIMB) Early Career Award
 2023 Invited contributor and presenter for the 2023 Futures Issue of the *AICbE Journal*
 2022 NIH Director's New Innovator Awardee
 2022 Office of Naval Research Young Investigator Awardee
 2021 New Innovator Awardee from the Foundation for Food and Agriculture Research
 2021 Recipient of the Langer Prize in Innovation and Entrepreneurial Excellence
 2020 American Institute of Chemical Engineers (AIChE) 35 Under 35 Awardee
 2019 Emerging Leaders in Biosecurity Initiative Fellow from the Johns Hopkins Center for Health Security
 2017 Synthetic Biology (SB7.0) Biosecurity Fellow
 2014, 2015 Conference Travel Awardee from the MIT Graduate Student Council, NSF, and Dow Chemical
 2011 National Science Foundation (NSF) National ERC Elevator Pitch 3rd Place Awardee
 2010 NSF Graduate Research Fellow
 2010 Chevron-MIT Energy Initiative Fellow
 2010 National Tau Beta Pi Williams Fellow
 2007 Shell Oil Company Technical Scholar
 2006 Micron Science and Technology Scholar
 2006 U.S. Presidential Scholar

Peer Reviewed Publications(† denotes equal contributions, * denotes corresponding, **IF** = Impact Factor)

ORCID: 0000-0001-6869-9530

31. Nain, P.; Dickey, R.M.; Somasundaram, V.; Sulzbach, M.; [Kunjapur, A.M.](#)* “Reductive amination cascades in cell-free and resting whole cell formats for valorization of lignin deconstruction products.” *In press at Biotech. Bioeng.* **IF = 3.8**
30. Butler, N.D.; [Kunjapur, A.M.](#)* “Selective and site-specific incorporation of non-standard amino acids within proteins for therapeutic applications.” *Methods Mol. Biol.* 2024 2720, 35-53. **IF = 1.4**
29. Jones, M.A.; Butler, N.D.; Anderson, S.; Wirt, S.; Govil, I.; Lyu, X.; Fang, Y.; [Kunjapur, A.M.](#)* “Discovery of L-threonine transaldolases for enhanced biosynthesis of beta hydroxylated amino acids.” *Commun. Biol.* 2023 6, 929. DOI: 10.1038/s42003-023-05293-0 **IF = 6.5**
28. Dickey, R.M.; Butler, N.D.; Jones, M.A.; Govil, I.; [Kunjapur, A.M.](#)* “Terephthalaldehyde as a platform chemical intermediate for microbial conversions.” *AICbE J.* 2023, e18230. Invited submission to the 2023 Futures Issue. DOI: 10.1002/aic.18230 **IF = 4.1**
27. Butler, N.D.; Sen, S.; Brown, L.B.; Lin, M.; [Kunjapur, A.M.](#)* “A platform for distributed production of synthetic nitrated proteins in live bacteria.” *Nat. Chem. Biol.* 2023 19, 911-920. DOI: 10.1038/s41589-023-01338-x **IF = 16.3**
As of Sep. 2023, >5100 article accesses and coverage in 16 online news outlets.
26. Butler, N.D.; Anderson, S.; Dickey, R.M.; Nain, P.; [Kunjapur, A.M.](#)* “Combinatorial gene inactivation of aldehyde dehydrogenases mitigates the oxidation catalyzed by *E. coli* resting cells.” *Metab. Eng.* 2023 77, 294-305. DOI: 10.1016/j.ymben.2023.04.014 **IF = 8.8**
25. Gopal, M.R.; Dickey, R.M.; Butler, N.D.; Talley, M.; Nakamura, D.; Mohapatra, A.; Watson, M.P.; Chen, W.; Kunjapur, A.M.* “Reductive enzyme cascades for valorization of PET deconstruction products.” *ACS Catal.* 2023 13 (7), 4778-4789. DOI: 10.1021/acscatal.2c06219 **IF = 13.7**
24. Terlouw, B.R.; Blin, K.; (total of 80 co-authors including [Kunjapur, A.M.](#)); Weber, T.; Medema, M.H. "MIBiG 3.0: a community-driven effort to annotate experimentally validated biosynthetic gene clusters." *Nucleic Acids Res.* 2022, gkac1049. DOI: 10.1093/nar/gkac1049. **IF = 19.2**
23. Stork, D.A.; Jones, M.A.; Garner, E.C.*; [Kunjapur, A.M.](#)* “Incorporation of a chemically diverse set of non-standard amino acids into a gram-positive organism.” *Bio-Protocol.* 2022 12 (17), e4507. DOI: 10.21769/BioProtoc.4507 **IF = N/A**
22. Hinton, Z.R.; Talley, M.R.; Kots, P.A.; Le, A.V.; Zhang, T.; Mackay, M.E.; [Kunjapur, A.M.](#); Bai, P.; Vlachos, D.G.; Watson, M.P.; Berg, M.C.; Epps, T.H.; Korley, L.T.J. “Innovations toward the valorization of waste plastics.” *Annu. Rev. Mater. Res.* 2022 52, 249-280. DOI: 10.1146/annurev-matsci-081320-032344 **IF = 16.3**
21. Dickey, R.M.†; Forti, A.M.†; [Kunjapur, A.M.](#)* “Advances in engineering microbial biosynthesis of aromatic compounds and related compounds.” *Bioresour. Bioprocess.* 2021 8 (1), 1-17. (Invited review) DOI: 10.1186/s40643-021-00434-x **IF = 4.6**
20. Stork, D.A.; Squyres, G.R.; Kuru, E.; Gromek, K.A.; Rittichier, J.; Jog, A.; Burton, B.M.; Church, G.M.; Garner, E.C.; [Kunjapur, A.M.](#)* “Designing efficient genetic code expansion in *Bacillus subtilis* to gain biological insights.” *Nat. Commun.* 2021 12 (1), 1-12. DOI: 10.1038/s41467-021-25691-4 **IF = 14.9**
19. [Kunjapur, A.M.](#)†*; Napolitano, M.G.†; Hysolli, E.†; Noguera, K.; Appleton, E.M.; Schubert, M.G.; Jones, M.A.; Iyer, S.; Mandell, D.J.; Church, G.M.* "Synthetic auxotrophy remains stable after continuous evolution and in co-culture with mammalian cells." *Sci. Adv.* 2021 7 (27), eabf5851. DOI: 10.1126/sciadv.abf5851 **IF = 13.1**
18. Wannier, T.M.; Ciaccia, P.N.; Ellington, A.D.; Filsinger, G.T.; Isaacs, F.J.; Javanmardi, K.; Jones, M.A.; [Kunjapur, A.M.](#); Nyerges, A.; Pal, C.; Schubert, M.G.; Church, G.M. “Recombineering and MAGE.” *Nat. Rev. Methods Primers.* 2021 1 (7). DOI: 10.1038/s43586-020-00006-x. **IF = N/A**
17. Parker, M.; [Kunjapur, A.M.](#)* “Deployment of engineered microbes: Contributions to the bioeconomy and considerations for biosecurity.” *Health Secur.* 2020 18 (4), 278-296. DOI: 10.1089/hs.2020.0010. **IF = 1.4**
16. Sulzbach, M.; [Kunjapur, A.M.](#)* “The pathway less traveled: Engineering biosynthesis of nonstandard functional groups.” *Trends Biotechnol.* 2020 38 (5), 532-545. DOI: 10.1016/j.tibtech.2019.12.014. **IF = 13.7**
15. Butler, N.D.; [Kunjapur, A.M.](#)* “Carboxylic acid reductases in metabolic engineering.” *J. Biotechnol.* 2020 307 (1), 1-14. DOI: 10.1016/j.jbiotec.2019.10.002. **IF = 3.2**

Before appointment at the University of Delaware:

14. [Kunjapur, A.M.](#)*; Prather, K.L.J.* “Development of a vanillate biosensor for the vanillin biosynthesis pathway in *E. coli*.” *ACS Synth. Biol.* 2019 8 (9), 1958-1967. DOI: 10.1021/acssynbio.9b00071. **IF = 5.6**

13. Strauss, S.K.; Schirman, D.; Jona, G.; Brooks, A.N.; [Kunjapur, A.M.](#); et al. "EVOLTHON: A community endeavor to evolve lab evolution." *PLoS Biol.* 2019 17 (3): e3000182. DOI: 10.1371/journal.pbio.3000182. **IF = 8.4**
12. [Kunjapur, A.M.](#)^{†*}; Pflingst, P.[†]; Thompson, N.C.* "Gene synthesis allows biologists to source genes from farther away in the tree of life." *Nat. Commun.* **2018** 9, 4425. DOI: 10.1038/s41467-018-06798-7. **IF = 11.9**
11. Wannier, T.M.^{†*}; [Kunjapur, A.M.](#)^{†*}; Rice, D.P.; McDonald, M.J.; Desai, M.M.; Church, G.M. "Adaptive evolution of genomically recoded *Escherichia coli*." *Proc. Natl. Acad. Sci. U.S.A.* **2018** 115 (12), 3090-3095. DOI: 10.1073/pnas.1715530115. **Highlighted by HMS News and by PNAS IF = 9.6**
10. Kohman, R.[†]; [Kunjapur, A.M.](#)[†]; Hysolli, E.[†]; Wang, Y.[†]; Church, G.M. "From designing the molecules of life to designing life: future applications derived from advances in DNA technologies." *Angew. Chem. Int. Ed.* **2018** 57 (16), 4313-4328. DOI: 10.1002/anie.201707976. **IF = 12.3**
09. [Kunjapur, A.M.](#)^{*}; Stork, D.A.; Kuru, E.; Vargas-Rodriguez, O.; Landon, M.M.; Söll, D.*; Church, G.M.* "Engineering post-translational proofreading to discriminate non-standard amino acids." *Proc. Natl. Acad. Sci. U.S.A.* **2018** 115 (3) 619-624. DOI: 10.1073/pnas.1715137115. **Highlighted by HMS News IF = 9.6**
08. Khlystov, N.A.[†]; Chan, W.Y.[†]; [Kunjapur, A.M.](#); Shi, W.; Prather, K.L.J.; Olsen, B.D. "Material properties of the cyanobacterial reserve polymer multi-L-arginyl-poly-L-aspartate (cyanophycin)." *Polymer.* **2017** 109 (1), 238-245. DOI: 10.1016/j.polymer.2016.11.058. **IF = 3.8**
07. [Kunjapur, A.M.](#); Hyun, J.C.; Prather, K.L.J. "Deregulation of S-adenosylmethionine biosynthesis and regeneration improves methylation in *E. coli de novo* vanillin biosynthesis pathway." *Microb. Cell Fact.* **2016** 15 (1), 1. DOI: 10.1186/s12934-016-0459-x. **IF = 4.4**
06. [Kunjapur, A.M.](#); Cervantes, B.; Prather, K.L.J. "Coupling carboxylic acid reductase to inorganic pyrophosphatase enhances cell-free *in vitro* aldehyde biosynthesis." *Biochem. Eng. J.* **2016** 109 (5), 19-27. DOI: 10.1016/j.bej.2015.12.018. **IF = 3.4**
05. Sheppard, M.J.[†]; [Kunjapur, A.M.](#)[†]; Prather, K.L.J. "Modular and selective biosynthesis of gasoline-range alkanes." *Metab. Eng.* **2016** 33, 28-40. DOI: 10.1016/j.ymben.2015.10.010. **IF = 7.8**
04. [Kunjapur, A.M.](#); Prather, K.L.J. "Microbial engineering for aldehyde synthesis." *Appl. Environ. Microbiol.* **2015** 81 (6), 1892-1901. DOI: 10.1128/AEM.03319-14. **IF = 4.1**
03. Sheppard, M.J.; [Kunjapur, A.M.](#); Wenck, S.J.; Prather, K.L.J. "Retrobiosynthetic modular approach to pathway design achieves selective pathway for microbial synthesis of the gasoline substitute 4-methyl-pentanol." *Nat. Commun.* **2014** 5, 5031. DOI: 10.1038/ncomms6031. **IF = 11.9**
02. [Kunjapur, A.M.](#); Tarasova, Y.; Prather, K.L.J. "Synthesis and accumulation of aromatic aldehydes in an engineered strain of *E. coli*." *J. Am. Chem. Soc.* **2014** 136 (33), 11644-11654. DOI: 10.1021/ja506664a. **Highlighted by C&EN IF = 14.7**
01. [Kunjapur, A.M.](#)^{*}; Eldridge, R.B. "Photobioreactor design for commercial biofuel production from microalgae." *Ind. Eng. Chem. Res.* **2010** 49 (8), 3516-3526. DOI: 10.1021/ie901459u. **IF = 3.1**

Commentaries

01. Sen, S.; [Kunjapur, A.M.](#)^{*} "Coordinated microbial lysis bursts into the drug delivery scene." Invited Spotlight article from *Trends in Biotechnology*. *Accepted*. (Not peer-reviewed)

Patent Filings

09. [Kunjapur, A.M.](#); Gopal, M.R.; Dickey, R.M.; Chen, W.; Nain, P. "Enzymatic reduction or reductive amination of aryl and heterocyclic carboxylic acids and aldehydes." PCT Application US23/66492. Filed: May 2, 2023.
08. [Kunjapur, A.M.](#); Jones, M.A.; Butler, N.D.; Wirt, S. "L-Threonine transaldolases and uses thereof." PCT Application US23/64643. Filed: Mar. 17, 2023.
07. [Kunjapur, A.M.](#); Butler, N.D. "Biosynthesis of para-nitro-L-phenylalanine." U.S. Patent Application No. 17/774,302. Filed: May 4, 2022. (Also filed as European Patent Application No. 20885934.8, Canadian Patent Application No. 3,157,470, Australian Patent Application No. 2020378327, and Japanese Patent Application No. 2022-526360)
06. [Kunjapur, A.M.](#); Gopal, M.R.; Dickey, R.M.; Chen, W. "Biocatalytic production of monoamines, diamines, or diols from aromatic or heterocyclic plastic deconstruction products." U.S. Provisional Application No. 63/337,347. Filed: May 2, 2022.
05. [Kunjapur, A.M.](#); Jones, M.A.; Butler, N.D.; Wirt, S. "Methods, Enzymes, and Engineered Strains to Synthesize Beta-Hydroxy L-Alpha Amino Acids in Metabolically Active Bacterial Cells." U.S. Provisional Application No. 63/320,859. Filed: Mar. 17, 2022.

04. Kunjapur, A.M.; Butler, N.D. “Biosynthesis of para-nitro-L-phenylalanine.” PCT Application US20/59094. Filed: Nov. 5, 2020.

Before appointment at the University of Delaware:

03. Kunjapur, A.M.; Stork, D.A.; Kuru, E.; Church, G.M. “Synthetase variants for incorporation of biphenylalanine into a peptide.” U.S. Provisional Application No. 62/527,115. Filed: Jun. 30, 2017.
02. Kunjapur, A.M.; Church, G.M. “Method of making proteins with non-standard amino acids.” U.S. Provisional Application No. 62/526,671. Filed: Jun. 29, 2017.
01. Sheppard, M.J.; Kunjapur, A.M.; Prather, K.L.J. “Microbial production of branched medium chain alcohols, such as 4-methylpentanol.” US Patent No. 101000335. Issued: Oct. 16, 2018.

Invited Lectures

47. “Thinking outside of the bioreactor: How biosynthesis of rare building blocks creates new capabilities & safeguards.” SB.Talk Series, Stanford Synthetic Biology Community. Stanford University. *Scheduled for Dec. 12, 2023.*
46. “Thinking outside of the bioreactor: How biosynthesis of rare building blocks creates new capabilities & safeguards.” McKetta Department of Chemical Engineering, University of Texas – Austin. *Scheduled for Nov. 28, 2023.*
45. “Leveraging multiplex genome engineering and metabolic pathway design to upcycle waste plastics and biomass via aldehyde transformations in live bacteria.” 2023 AIChE Futures Session, AIChE Annual Meeting. Nov. 15, 2023.
44. “How expanded genetic codes can enable new directions in synthetic biology.” The Second US/Korea Synthetic Biology Meeting, Emeryville, CA. Nov. 2, 2023.
43. “National resources for innovation-based entrepreneurship.” 2023 Diversity and Equity Accelerator through Learning for Startups Workshop, AIChE. Oct. 25, 2023.
42. “Thinking outside of the bioreactor: How biosynthesis of rare building blocks creates new capabilities & safeguards.” Special Seminar, Georgia Institute of Technology. Oct. 24, 2023.
41. “Thinking outside of the bioreactor: How biosynthesis of rare building blocks creates new capabilities & safeguards.” Biological Design Institute, Arizona State University. Oct. 20, 2023.
40. “Designing a high-throughput cell-based screen for N-oxygenase engineering.” Strategic Environmental Research and Development Program (SERDP) Scientific Advisory Board Meeting. Oct. 12, 2023.
39. “Thinking outside of the bioreactor: How biosynthesis of rare building blocks creates new capabilities & safeguards.” Chemical Engineering Department, University of Wisconsin – Madison. Oct. 10, 2023.
38. “Aiding the warfighter by creating and harnessing new building blocks of life using engineered microbes.” U.S. Army DEVCOM CBC, Aberdeen Proving Ground. Sep. 14, 2023.
37. “Thinking outside the bioreactor: Engineering rhizobacteria for biosynthesis of plant effectors and for containment.” Single-cell Approaches in Plant Biology Gordon Research Conference. Aug. 3, 2023.
36. “Reductive enzyme cascades to valorize the products of PET deconstruction.” Society for Industrial Microbiology and Biotechnology Annual Meeting. Aug. 2, 2023
35. “Programming synthetic auxotrophs to depend on breakdown products of biodegradable polymers.” Office of Naval Research Biotechnology Program Review. May 26, 2023.
34. “Engineering rhizobacteria for biosynthesis of plant effectors and for containment.” 2023 American Society of Plant Biologists Mid-Atlantic Section and University of Maryland Plant Symposium. May 25, 2023.
33. “Towards design of an engineered plant growth promoting rhizobacterium.” U.S. Dept. of Agriculture BRAG Program Director’s Annual Meeting. May 23, 2023.
32. “A platform for distributed production of synthetic nitrated proteins in live bacteria.” Frontiers at the Chemistry-Biology Interface Symposium, University of Maryland School of Pharmacy. May 20, 2023.
31. “How expanded building block chemistry can enable new frontiers for synthetic biology.” Chemical Engineering Department, California Institute of Technology. May 4, 2023.
30. “How expanded building block chemistry can enable new frontiers for synthetic biology.” Department of Chemical Engineering, University of Washington. Mar. 27, 2023.

29. "Bacterial genome engineering for whole cell bioconversion of lignin breakdown products." American Society for Biochemistry and Molecular Biology Annual Meeting "Discover BMB". Mar. 25, 2023.
28. "How expanded building block chemistry can enable new frontiers for synthetic biology." The Global Open Genetic Engineering Competition (Gogec). Feb. 17, 2023.
27. "Updates on my experience as a Langer Prize Fellow." AIChE Corporate Council & Industry Leaders Forum. Feb. 9, 2023.
26. "How expanded building block chemistry can enable new frontiers for synthetic biology." Invited Keynote Lecture, Winter Research Review, Department of Chemical Engineering, University of Delaware. Jan. 25, 2023.
25. "How expanded building block chemistry can enable new frontiers for synthetic biology." Department of Chemistry and Biochemistry, University of California – Santa Barbara. Jan. 11, 2023.
24. "Seven suggestions for grantsmanship." Delaware CTR-ACCEL Junior Investigators Network. Aug. 18, 2022.
23. "Expanded building block chemistry for synthetic biology." Novome Biotechnologies, South San Francisco. May 20, 2022.
22. "How expanded building block chemistry can enable new frontiers for synthetic biology." Tau Bate Talks Series. May 15, 2022.
21. "Teaching an old bug new tricks: Engineering microbes to expand building block chemistries." Synthetic Biology Young Speaker Series (SynBYSS). Feb. 3, 2022.
20. "Teaching an old bug new tricks: Biosynthesis of uncommon functional groups in cellular environments." Department of Biology and Biotechnology, Worcester Polytechnic Institute. Jan. 25, 2022.
19. "Teaching an old bug new tricks: Biosynthesis of uncommon functional groups in cellular environments." Department of Chemical, Biological and Materials Engineering, University of South Florida. Nov. 24, 2021.
18. "Adding valuable functional groups to building blocks using new synthetic biology tools." Invited session keynote for Synthetic Biology: Tool and Method Development. AIChE Annual Meeting. Nov. 11, 2021.
17. "Initial adventures in chemical engineering research and entrepreneurship." Award talk for the *2021 Langer Prize in Innovation and Entrepreneurial Excellence*. AIChE Annual Meeting. Nov. 8, 2021.
16. "Risk assessment for a microbial biocontainment technology with unprecedented effectiveness: synthetic auxotrophy." Environmental Protection Agency Biotechnology Workshop. Jul. 28, 2021.
15. "Engineering biosynthetic pathways to non-standard amino acids." Delaware Biotechnology Institute Bioinformatics Seminar Series, University of Delaware. Dec. 2, 2019.
14. "Engineering biosynthetic pathways to non-standard amino acids." Chemistry-Biology Interface Seminar Series, University of Delaware. Nov. 6, 2019.
13. "Expanding the microbial chemistry repertoire." Microbial Systems Symposium, University of Delaware. Feb. 6, 2019.
12. "Policy approaches to synthetic biology and do-it-yourself (DIY) biology." (Panelist) American Society for Microbiology (ASM) Biothreats Conference. Jan. 29, 2019.

Before appointment at the University of Delaware:

11. "Expanding the microbial chemistry repertoire by engineering selective processes." Institute for Bioscience and Biotechnology Research, National Institute of Standards and Technology (NIST) / University of Maryland. Apr. 12, 2018.
10. "Gene synthesis allows biologists to source genes from farther away in the tree of life." Addgene (non-profit plasmid repository). Mar. 06, 2018.
09. "Expanding the microbial chemistry repertoire by engineering selective processes." Biomedical Engineering, Boston University. Mar. 01, 2018.
08. "Expanding the microbial chemistry repertoire by engineering selective processes." Chemical Engineering, University of Maryland – College Park. Feb. 15, 2018.
07. "Expanding the microbial chemistry repertoire by engineering selective processes." Chemical Engineering, Columbia University. Jan. 26, 2018.
06. "Expanding the microbial chemistry repertoire by engineering selective processes." Chemical Engineering, Texas A&M University. Jan. 22, 2018.
05. "Expanding the microbial chemistry repertoire by engineering selective processes." Chemical and Biomolecular Engineering, University of Delaware. Jan. 05, 2018.

04. "Engineering post-translational proofreading to discriminate non-standard amino acids." First Annual N-term Workshop, Leibniz Institute of Plant Biochemistry. Sep. 13, 2017.
03. "Engineering post-translational proofreading to discriminate non-standard amino acids." Chemical Engineering, Rose-Hulman Institute of Technology. Apr. 21, 2017.
02. "Engineering post-translational proofreading to discriminate non-standard amino acids." Dieter Söll Lab, Molecular Biophysics and Biochemistry, Yale University. Mar. 31, 2017.
01. "Engineering post-translational proofreading to discriminate non-standard amino acids." Jeff Gray Lab, Chemical and Biomolecular Engineering, Johns Hopkins University. Feb. 14, 2017.

Conference Presentations

51. Dickey, R.M.; Jones, M.A.; Butler, N.D.; Govil, I.; [Kunjapur, A.M.](#) "Terephthalaldehyde As a Platform Chemical Intermediate for Microbial Conversions." AIChE Annual Meeting. Nov. 9, 2023.
50. Sen, S.; Kho, K.K.; Tiso, A.; [Kunjapur, A.M.](#) "Discovery of New and Tunable N-Terminal Protein Degradation Tags in *E. coli* using FACS & NGS." AIChE Annual Meeting. Nov. 9, 2023.
49. Nain, P.; Christoff-Tempesta, T.; Bass, G.; Sulzbach, M.; Epps, T.H.; [Kunjapur, A.M.](#) "Biocatalytic Amine Transfer to Lignin-Derived Carboxylic Acids and Aldehydes." AIChE Annual Meeting. Nov. 9, 2023.
48. Anderson, S.; Butler, N.D.; [Kunjapur, A.M.](#) "The Elimination of Nitroreductases in *E. coli* enables the Retention of Many Nitro Compounds for Biosynthesis or Biosensing Applications." AIChE Annual Meeting. Nov. 8, 2023.
47. [Kunjapur, A.M.](#) "How expanded building blocks can enable new frontiers for synthetic biology." Synthetic Biology Gordon Research Conference. Jul. 19, 2023. (Poster)
46. [Kunjapur, A.M.](#) "How expanded building blocks can enable new frontiers for synthetic biology." American Society for Microbiology "ASM Microbe". Jun. 17, 2023. (Poster)
45. [Kunjapur, A.M.](#) "How the biosynthesis of non-standard amino acids can enable new forms of vaccines, antibiotics, and biological containment." Metabolic Engineering 15, Singapore. Jun. 14, 2023.
44. [Kunjapur, A.M.](#) "How expanded building blocks can enable new frontiers for synthetic biology." Synthetic Biology Engineering, Evolution, and Design Conference. May 31, 2023. (Poster)
43. [Kunjapur, A.M.](#); Gopal, M.R.; Dickey, R.M.; Butler, N.D.; Talley, M.; Watson, M.P.; Chen, W.; "Reductive enzyme cascades for valorization of PET deconstruction products." 45th Symposium on Biomaterials, Fuels and Chemicals. May 3, 2023.
42. [Kunjapur, A.M.](#) "How expanded building blocks can enable new frontiers for synthetic biology." 45th Symposium on Biomaterials, Fuels and Chemicals. May 1, 2023. (Poster)
41. Butler, N.D.; Anderson, S.; Dickey, R.M.; Nain, P.; [Kunjapur, A.M.](#) "Combinatorial gene inactivation of aldehyde dehydrogenases mitigates aldehyde oxidation catalyzed by resting cells of *E. coli* RARE strains." 45th Symposium on Biomaterials, Fuels and Chemicals. May 1, 2023. (Poster)
40. Anderson, S.; [Kunjapur, A.M.](#) "Enhanced nitro group stabilization by engineering the *E. coli* NARKOS strain." 13th International Conference on Biomolecular Engineering. Jan. 9, 2023. (Poster)
39. [Kunjapur, A.M.](#) "Programming cells to create unnatural building blocks for applications in human and environmental health." 13th International Conference on Biomolecular Engineering. Jan. 9, 2023. (Poster)
38. [Kunjapur, A.M.](#) "Profiling of Putative Threonine Transaldolases for Biosynthesis of Non-Standard Amino Acids." Mid-Atlantic Synthetic Biology Symposium. Dec. 1, 2022. (Poster)
37. Jones, M.A.; [Kunjapur, A.M.](#) "Profiling of Putative Threonine Transaldolases for Biosynthesis of Non-Standard Amino Acids." AIChE Annual Meeting. Nov. 18, 2022.
36. Butler, N.D.; [Kunjapur, A.M.](#) "Genomic Engineering of *Escherichia coli* for Improved Aromatic Aldehyde Stability." AIChE Annual Meeting. Nov. 17, 2022.
35. Butler, N.D.; [Kunjapur, A.M.](#) "De Novo Biosynthesis of the Non-Standard Amino Acid Para-Nitrophenylalanine." AIChE Annual Meeting. Nov. 16, 2022.
34. Gopal, M.R.; [Kunjapur, A.M.](#) "Reductive Enzyme Cascades for Valorization of PET Deconstruction Products Guided By the Specificity of Carboxylic Acid Reductases." AIChE Annual Meeting. Nov. 15, 2022.

33. Govil, I.; Mazidi, C.; Mischley, V.; Karanicolas, J.; Jones, M.A.; [Kunjapur, A.M.](#) “Rational and Experimental Approaches for Protein Degradation or Amino Acid Biosynthesis.” AIChE Annual Meeting, Undergraduate Poster Session. Nov. 14, 2022. (Poster)
32. [Kunjapur, A.M.](#) “*De novo* biosynthesis of an immunogenic amino acid.” Society for Industrial Microbiology and Biotechnology, New to Nature Chemistry Session. Aug. 10, 2022.
31. [Kunjapur, A.M.](#) “*De novo* biosynthesis of an immunogenic amino acid.” Engineering Biology Research Consortium Annual Meeting. May 20, 2022.
30. Gopal, M.R.; [Kunjapur, A.M.](#) “Reductive enzyme cascades for valorization of PET degradation products guided by the specificity of carboxylic acid reductases.” Synthetic Biology Engineering, Evolution, and Design. May 3, 2022. (Poster)
29. Butler, N.D.; [Kunjapur, A.M.](#) “*De novo* biosynthesis of an immunogenic amino acid.” Synthetic Biology Engineering, Evolution, and Design. May 3, 2022. (Poster)
28. Jones, M.A.; [Kunjapur, A.M.](#) “Profiling of Putative Threonine Transaldolases for Biosynthesis of Non-Standard Amino Acids.” Synthetic Biology Engineering, Evolution, and Design. May 3, 2022. (Poster)
27. Jones, M.A.; [Kunjapur, A.M.](#) “Profiling of Putative Threonine Transaldolases for Biosynthesis of Non-Standard Amino Acids.” American Chemical Society BIOT Division. Mar. 22, 2022.
26. [Kunjapur, A.M.](#) “Towards biological containment by synthetic auxotrophy in new contexts and new microbes.” 5th International Conference on Plant Synthetic Biology, Bioengineering, & Biotechnology. Nov. 15, 2021. (Poster)
25. [Kunjapur, A.M.](#) “Towards biological containment by synthetic auxotrophy in new contexts and new microbes.” Mid-Atlantic Synthetic Biology Symposium. Nov. 9, 2021.
24. Wirt, S.; [Kunjapur, A.M.](#) “Screening of putative L-threonine transaldolases.” AIChE Annual Meeting, Undergraduate Poster Session. Nov. 8, 2021. (Poster)
23. [Kunjapur, A.M.](#) “Towards biological containment by synthetic auxotrophy in new contexts and new microbes.” AIChE Annual Meeting. Nov. 7, 2021.
22. [Kunjapur, A.M.](#) “Towards biological containment by synthetic auxotrophy in new contexts and new microbes.” American Chemical Society BIOT Division. Aug. 25, 2021.
21. Butler, N.D.; [Kunjapur, A.M.](#) “Nitro Biosciences.” American Chemical Society, BIOT Division. BIOT Tank Competition. Aug. 23, 2021.
20. [Kunjapur, A.M.](#) “Advancing biological containment by synthetic auxotrophy in new contexts and new microbes.” Metabolic Engineering 14 Conference. Jul. 12, 2021. (Poster)
19. [Kunjapur, A.M.](#) “Towards improved safety and efficacy of live bacterial vaccines using an expanded genetic code.” 11th International Conference on Biomolecular Engineering. Jan. 9, 2021.
18. [Kunjapur, A.M.](#) “Synthetic auxotrophy remains stable after continuous evolution and in co-culture with mammalian cells.” Synthetic Biology Approaches to Improve Human and Environmental Health. New York Academy of Sciences. Nov. 18, 2020.
17. Butler, N.D.; [Kunjapur, A.M.](#) “*De novo* biosynthesis of a nitro-containing amino acid.” AIChE Annual Meeting. Nov. 2020. (Virtual, recorded)
16. [Kunjapur, A.M.](#) “Expanding the N-degron pathway in *E. coli*.” 1st Annual Protein Termini Meeting, Seoul. Oct. 4, 2019.
15. [Kunjapur, A.M.](#) “Engineering microbial biosynthesis of non-standard amino acids.” Emerging Leaders in Biosecurity Initiative (ELBI) Annual Research and Policy Symposium. Jul. 24, 2019.

Before appointment at the University of Delaware:

14. [Kunjapur, A.M.](#) “Continuous evolution of engineering synthetic auxotrophs for industrial application.” AIChE Annual Meeting. Oct. 31, 2018.
13. [Kunjapur, A.M.](#) “Engineering post-translational proofreading to discriminate non-standard amino acids.” Synthetic Biology Engineering, Evolution & Design. Jun. 4, 2018.
12. [Kunjapur, A.M.](#); Stork, D.A.; Kuru, E.; Vargas-Rodriguez, O.; Landon, M.M.; Söll, D.; Church, G.M. “Engineering post-translational proofreading to discriminate non-standard amino acids.” Protein Engineering Global Summit. May 2, 2018. (Poster)
11. [Kunjapur, A.M.](#)†; Wannier, T.M.†; Rice, D.P.; McDonald, M.J.; Desai, M.M.; Church, G.M. “Adaptive evolution of genomically recoded *Escherichia coli*.” AIChE Annual Meeting. Nov. 2, 2017. (Poster)

10. [Kunjapur, A.M.](#); Stork, D.A.; Kuru, E.; Vargas-Rodriguez, O.; Landon, M.M.; Söll, D.; Church, G.M. “Engineering post-translational proofreading to discriminate non-standard amino acids.” AIChE Annual Meeting. Oct. 30, 2017.
09. [Kunjapur, A.M.](#); Kuru, E.; Stork, D.A.; Narasimhan, K.; Huang, P.; Mandell, D.J.; Aach, J.; Church, G.M. “Non-standard amino acid incorporation in the new era of recoded genomes.” DOE Genomic Sciences PI Meeting. Feb. 06, 2017. (Poster)
08. [Kunjapur, A.M.](#)†; Wannier, T.M.†; Rice, D.P.; McDonald, M.J.; Desai, M.M.; Church, G.M. “Long-term adaptive evolution of genomically recoded *Escherichia coli*.” Synthetic Biology Engineering Evolution and Design (SEED). Jul. 20, 2016. (Poster)
07. [Kunjapur, A.M.](#)†; Sheppard, M.J.†; Prather, K.L.J. “Biosynthesis of key gasoline-range alkanes using engineered *E. coli*.” 249th American Chemical Society Meeting. Mar. 25, 2015.
06. [Kunjapur, A.M.](#); Tarasova, Y.; Prather, K.L.J. “Synthesis and accumulation of aromatic aldehydes using engineered *Escherichia coli*.” Keystone Symposia on Genome Engineering. Jan. 11, 2015. Travel supported by NSF/Keystone. (Poster)
05. [Kunjapur, A.M.](#); Tarasova, Y.; Prather, K.L.J. “Synthesis and accumulation of aromatic aldehydes using engineered *Escherichia coli*.” AIChE Annual Meeting. Nov. 19, 2014. Travel supported by MIT Graduate Student Council.
04. [Kunjapur, A.M.](#); Tarasova, Y.; Prather, K.L.J. “Synthesis and accumulation of aromatic aldehydes using engineered *Escherichia coli*.” Synberc Fall Retreat. Sept. 27, 2014.
03. Olsen, B.; Khlystov, N.; Prather, K.; [Kunjapur, A.](#) “Materials properties of cyanophycin, a non-ribosomally synthesized polypeptide.” 248th American Chemical Society Meeting. Aug. 10, 2014. (Poster)
02. [Kunjapur, A.M.](#); Tarasova, Y.; Prather, K.L.J. “Engineering *E. coli* for synthesis of aromatic aldehydes as products or intermediates under aerobic growth.” 247th American Chemical Society Meeting. Mar. 19, 2014. Travel supported by Dow Chemical.
01. Dueber, J.; Connell, K.; Wu, G.; [Kunjapur, A.](#); Prather, K. “Synthetic co-assembly of metabolic enzymes for improved flux.” Protein Science. Aug. 01, 2012. (Poster)

Professional Service

Educational Outreach

Virtual engagement:

“Kunjapur Lab Academy” YouTube channel. Created Apr. 2020. 79 videos, 725 subscribers, & 49,601 views (10/2023).
<https://www.youtube.com/c/KunjapurLabAcademy/about>

Professional Societies

Organizational service:

Student/Postdoc/Early Career Committee, 2022- , Society for Industrial Microbiology & Biotechnology
 4S Committee (Safety, Security, Sustainability, and Social Responsibility), 2021- , BioMADE Manufacturing Institute
 Education Working Group, 2020- , Engineering Biology Research Consortium
 Future Faculty Mentor, 2018- , AIChE Educational Division
 Co-Advisor, 2019-2022, International Genetically Engineered Machines (iGEM) Team, University of Delaware
 Before Delaware:
 MIT Energy Club, 2013-2014 Co-President
 SynBERC Students and Postdoc Association, 2014 Co-President
 Omega Chi Epsilon Honor Society, Epsilon Chapter, 2010 Co-President

Conference service:

Conference Co-Chair:

13th International Conference on Biomolecular Engineering (ICBE) 2023

Area Coordinator:

Society for Industrial Microbiology and Biotechnology (SIMB) Annual Meetings ‘22/’23/’24 – Biocatalysis Committee
 ACS BIOT Spring 2022 – Upstream Processes

Theme Leader:

AIChE Annual 2023 – Biocatalysis & Biobased Products
 AIChE Annual 2022 – Synthetic Biology and Applications
 AIChE Annual 2020 – Synthetic Biology Applications

Session Chair:

ACS BIOT Spring 2024 – Biomolecular Engineering and Biophysical Processes
 AIChE Annual 2023 – Advances in Biocatalysts and Biocatalytic Processes
 Metabolic Engineering 15 2023 - Synthetic Biology for Metabolic Engineering
 ACS BIOT Fall 2023 – New Technologies in Biomolecule Design & Engineering

SIMB Annual Meeting 2022 – New to Nature Chemistry
 AIChE Annual 2021 – Advances in Metabolic Engineering – Eukaryotic Organisms
 ACS BIOT Fall 2021 – Microbial Metabolic Engineering
 ACS BIOT Fall 2021 – Advances in Protein Engineering 2
 Metabolic Engineering 14 (2021, virtual) – Adaptive/Directed Evolution and Enzyme Engineering
 AIChE Annual 2020 – Novel Applications in Synthetic Biology
 ACS BIOT Spring 2020 (was postponed to Fall 2020) – Protein Engineering, Drug Conjugates, and Bispecifics
 AIChE Annual 2019 – Protein Engineering: High Throughput Screening and Characterization

Poster Judge:

SIMB Biotechnology for Fuels/Chemicals 2021
 AIChE Annual 2019 - Bioengineering

Abstract Reviewer:

Synthetic Biology Engineering Evolution and Design (SEED) 2017

National studies & roadmaps:

Roadmap for Materials from Engineering Biology, Engineering Biology Research Consortium, Mar. 19-20, 2020.
 Biological security study, Johns Hopkins Center for Health Security. Jan. 9, 2018.

Peer Review

Editorial board member:

Review Editor, Frontiers in Synthetic Biology, 2023-
 Associate Editor, Frontiers in Industrial Microbiology – Fuels and Chemicals, 2022-
 Review Editor, Editorial Board of Fungal Biotechnology, Specialty Section of Frontiers in Fungal Biology, 2022-
 Editorial Board, Synthetic Biology Special Category, Experimental Biology and Medicine Journal, 2022-

Manuscript reviewer:

3Biotech
ACS Catalysis
ACS Sustainable Chemistry and Engineering
ACS Synthetic Biology
Biochemical Engineering Journal
Biotechnology Advances
Biotechnology Journal
ChemBioChem
ChemCatChem
Current Opinion in Biotechnology
Fermentation
iScience
Journal of Agricultural and Food Chemistry

Journal of Industrial Microbiology and Biotechnology
Journal of the American Chemical Society
Journal of Biotechnology
Metabolic Engineering Communications
Microbial Cell Factories
Nature Catalysis
Nature Chemical Biology
Nature Communications
Nature Methods
PLOS One
Protein Engineering, Design and Selection
Science Advances

Industry Engagement

Start-up Co-Founder:

Nitro Biosciences, Inc.

Scientific advisory board member:

Wild Microbes, Inc.

In discussions about collaborations or technology licensing with:

Ginkgo Bioworks
 Pfizer Biocatalysis Technology Group
 Evonik
 Merck Biocatalysis
 Carbon Upcycling Technologies

Principal Investigator Training

Managing Well 6-Week Series, University of Delaware – 2022
 Stage 1 – Lab Animal Research (CITI Program) 2022
 Responsible Conduct of Research 2021, 2022
 Founder Frequency Bio – Virtual Program for Biotech Entrepreneurs – 2022
 Culturally Aware Mentoring – UW-Madison ICEP 2021

Delivering Learning Experiences Online – UD Center for Teaching and Assessment of Learning 2020

University Service

Department:

Advisor for the Biochemical Engineering Minor, 2023-
Chair Search Committee, 2022
Colloquia Chair, 2020
Faculty Search Committee, 2019-2020

University-wide:

Member of the Board of Senior Thesis Readers, 2021-
Steering Committee Member, Chemistry-Biology Interface Program, 2020-
Thrust Co-Director and Executive Committee Member, Center for Plastics Innovation, 2020-

Thesis committee member: (out of department highlighted in blue)

Derron Ma, Chemical & Biomolecular Engineering, 2023-
Phil O'Dell, Chemical & Biomolecular Engineering, 2023-
Austin Morgan, [Microbiology Graduate Program](#), 2023-
Maria Kapitonova, [Chemistry & Biochemistry](#), 2023-
Rachel Warthen, [Microbiology Graduate Program](#), 2022-
Stephanie Tsang, [Chemistry & Biochemistry](#), 2022-
Vijaydev Ganesan, Chemical & Biomolecular Engineering, 2021-
Ayushi Agarwal, Chemical & Biomolecular Engineering, 2021-
Philip Gitman, Chemical & Biomolecular Engineering, 2021-
Alex Mitkas, Chemical & Biomolecular Engineering, 2021
Noah Willis, Chemical & Biomolecular Engineering, 2020-
Nathaniel Hamaker, Chemical & Biomolecular Engineering, 2020-2021
Kamil Charubin, Chemical & Biomolecular Engineering, 2020-2021
Ha Thi Thu Le, [Chemistry & Biochemistry](#), 2020-
Patrick Beardslee, [Biology](#), 2019-2023
Jie Ren (Gerald) Har, Chemical & Biomolecular Engineering, 2019-2022
Michael Dahle, Chemical & Biomolecular Engineering, 2019-2022
Andrew Urmeý, [Chemistry & Biochemistry](#), 2018-2019

Undergraduate thesis committee member:

Max Mendrzycki, Chemical & Biomolecular Engineering, 2022-2023
Ishika Govil, Chemical & Biomolecular Engineering, 2022-2023
Sean A. Wirt, Chemical & Biomolecular Engineering, 2021-2022
Tohn Borjigin, Chemical & Biomolecular Engineering, 2021-2022 (3rd reader)
Lexi Anderson, Biomedical Engineering, 2021-2022 (3rd reader)
Katherine Wagner, Biology, 2021-2022 (3rd reader)
Metehan Cebeci, Biology, 2021-2022 (3rd reader)

Mentorship**Post-Doctoral trainees:**

1. Priyanka Nain, Ph.D. in Chemical Engineering from IIT-Delhi, 2021-
2. Amanda Rosier, Ph.D. in Plant and Soil Sciences from UD, 2022-
3. Surendar Reddy Jakka, Ph.D. in Chemical Biology from Indian Institute of Science-Bangalore, 2022-2023

Doctoral trainees: (out of department highlighted in blue)

1. Neil Butler, Chemical & Biomolecular Engineering, 2019-
NSF GRFP Honorable Mention, UD Coursework Commendation, Outstanding TA Award, AIChE 2022 Oral Presentation Awardee, Finalist for the DSM Kirk Apt Biotech Student Award
2. Sabyasachi (Sunny) Sen, Chemical & Biomolecular Engineering, 2019-
Departmental Student Organization (Colburn Club) President
3. Michaela Jones, Chemical & Biomolecular Engineering, 2019-
NSF GRFP Honorable Mention, Chemistry-Biology Interface CBI (T32) Fellow, Fraser Russell Teaching Fellow
4. Roman Dickey, Chemical & Biomolecular Engineering, 2021-
5. Amanda Forti, Chemical & Biomolecular Engineering, 2021-
NSF Graduate Research Fellow, Mort Collins Fellow
6. Madan Gopal (Co-advised by Wilfred Chen), Chemical & Biomolecular Engineering, 2021-
7. Christopher Mayhugh, Chemical & Biomolecular Engineering, 2021-
CBI Fellow
8. Shelby Anderson, Chemical & Biomolecular Engineering, 2021-
CBI Fellow
9. D'Jana Wyllis, Chemical & Biomolecular Engineering, 2022-
Mort Collins Fellow, CBI G2 Fellow
10. Avaniek Cabales, Chemical & Biomolecular Engineering, 2022-
11. Saloni Gupta, Chemical & Biomolecular Engineering, 2023-
12. Austin Desmarais, [Microbiology Graduate Program](#), 2023-
13. Jessica Rubira Gamba, Chemical & Biomolecular Engineering, 2023-

Master's trainees:

1. Soumili Chattopadhyay, Chemical & Biomolecular Engineering, 2020-2021
2. Morgan Sulzbach, Chemical & Biomolecular Engineering, 2019-2021
NSF GRFP Honorable Mention, Outstanding TA Award

Undergraduate trainees:

1. Ryan Buchser, Chemical & Biomolecular Engineering, 2019-2021 (Next: Ph.D. student in Contreras Lab at UT-Austin)
2. Natalie Fuhr, Chemical & Biomolecular Engineering, 2019 (Next: ExxonMobil)
3. Sean Wirt, Chemical & Biomolecular Engineering, 2019-2022 (Next: Ph.D. student in Prather Lab at MIT)
NSF Graduate Research Fellow, Tau Beta Pi Scholar, AIChE Outstanding Freshman/Sophomore Awardee, Distinguished Telkes Scholar
4. Vicky Lin, Chemical & Biomolecular Engineering, 2019 (Next: Johnson Matthey)
5. Nathan Edwards, Chemical & Biomolecular Engineering, 2020-2021 (Next: 4+1 Biopharm. M.S. at UD)
6. Khai Khee Kho, Chemical & Biomolecular Engineering, 2020-2022 (Next: Admitted to Ph.D. at Minnesota, declined)
7. Ishika Govil, Chemical & Biomolecular Engineering, 2020-2023 (Next: Ph.D. student at MIT)
NSF Graduate Research Fellow, UD High-Index Graduate, Barry Goldwater Scholar, McNair Scholar, Distinguished Telkes Scholar
8. Shalom Fadullon, Chemical & Biomolecular Engineering, 2021 (Next: Ph.D. student at Northeastern)
Center for Plastics Innovation REU Scholar
9. Miyu Mudalamane, Chemical & Biomolecular Engineering, 2022-
Barry Goldwater Scholar, Distinguished Telkes Scholar
10. Alexander Tiso, Chemical & Biomolecular Engineering, 2022-
11. Anoushka Buddhikot, Chemical & Biomolecular Engineering, 2023-
Eugene DuPont Scholar
12. Abigail Spangler, Chemical & Biomolecular Engineering, 2023-
13. Joshua Bryan, Chemical & Biomolecular Engineering, 2023-
Center for Plastics Innovation REU Scholar
14. Vishal Somasundaram, Chemical & Biomolecular Engineering, 2023-
15. Defne Elbeyli, Chemical & Biomolecular Engineering, 2023-
Distinguished Telkes Scholar
16. Nastassja Corrado, Chemical & Biomolecular Engineering, 2023-

Undergraduate research mentorship statistics:

Percentage who are female: 62.5%

Percentage who went on to graduate programs (of those who have graduated): 62.5%

Percentage who have co-authored a publication (of those who have graduated): 38%

Percentage of original research papers from my lab at UD that have an undergraduate co-author: 80%