Scott D. Pauls
Curriculum Vitæ

Department of Mathematics
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EDUCATION

Ph.D., Mathematics, University of Pennsylvania, May 1998
B.A., Mathematics, Columbia University, May 1992

EMPLOYMENT

2025 to present, Interim Dean of Undergraduate Education,
School of Arts and Sciences, Dartmouth College
2018 to 2025, Cheheyl Professor and Director,
Dartmouth Center for the Advancement of Learning, Dartmouth College
2014 to present, Professor of Mathematics, Dartmouth College
2007 to present, Affiliated Faculty, Quantitative Social Science,
Dartmouth College
2016-2020, Chair, Department of Mathematics, Dartmouth College
2007-2016, Vice Chair, Department of Mathematics, Dartmouth College
2007-2014, Associate Professor of Mathematics, Dartmouth College
2001-2007, Assistant Professor of Mathematics, Dartmouth College
1998-2001, G.C. Evans Instructor, Rice University

RESEARCH AREAS

Applied Mathematics: complex systems, network theory, applications to neuroscience and the social sciences.

Pure Mathematics: Carnot-Carathéodory (sub-Riemannian) geometry, optimization problems in the sub-Riemannian setting, including minimal and isoperimetric surface problems.

Thesis Advisor: Christopher B. Croke, University of Pennsylvania
Thesis Title: *On Quasi-isometric Invariants: Rigidity and Related Phenomena*

PUBLICATIONS

Articles

As I publish in different fields with different author order conventions, I have highlighted my name in bold when author order is not alphabetical.
A star (*) indicates an undergraduate student author while two stars (**) indicates a graduate student or post-doctoral author.

1. Kursav, M. N.**, **Pauls, S. D.**, Bonfert-Taylor, R., Loeb, L., Ray, L. Accelerating Change of Practice through Targeted Professional Development in Data Science, Journal of Statistics and Data Science Education, (2025), 1-16. https://doi.org/10.1080/26939169.2025.2479012
2. Yao, Y.**, **Pauls, S. D**., Foley, D., Yoshikawa, T., Honma, S., Honma, K.-I., McVeigh, E.*, Foley, N.**, Silver, R. Suprachiasmatic Nucleus-wide Estimation of Oscillatory Temporal Dynamics, PLoS Comput Biol 21(3): e1012855 (2025). https://doi.org/10.1371/journal.pcbi.1012855
3. Jones, M.**, **Pauls, S. D.**, Fu, F., Containing misinformation: Modeling spatial games of fake news, *PNAS Nexus,* 3(3), (2024), 090. https://doi.org/10.1093/pnasnexus/pgae090
4. Tripp, E.**, Fu, F., **Pauls, S. D.,** Evolutionary Kuramoto Dynamics, *Proceedings of the Royal Academy, B,* 289 (2022). (https://doi.org/10.1098/rspb.2022.0999)
5. Jones, M.**, **Pauls, S. D.**, Fu, F., The dual problems of coordination and anti-coordination on random bipartite graphs, *New J. Physics* 23 (2021), 113018. (https://iopscience.iop.org/article/10.1088/1367-2630/ac3319/meta)
6. Spencer, C.*, Tripp, E.**, Fu, F., **Pauls, S. D.** Evolutionary constraints on connectivity patterns in the mammalian supra-chiasmatic nucleus. *Frontiers in Network Physiology,* 1 (2021), 3. (https://doi.org/10.3389/fnetp.2021.716883)
7. Yoshikawa, T., **Pauls S. D.,** Foley, N., Taub, A.*, LeSauter, J., Honma, K-I., Honma, S., Silver, R., Phase Gradients and Anisotropy of the Suprachiasmatic Network: Discovery of Phaseoids, *eNeuro* 8(5) (2021). (https://doi.org/10.1523/ENEURO.0078-21.2021)
8. Jones, M.**, **Pauls, S. D.**, Fu, F., Random Choices Facilitate Solutions to Collective Network Coloring Problems by Artificial Agents, *iScience.* 24(4) (2021), 102340. (https://doi.org/10.1016/j.isci.2021.102340)
9. Cogswell, C., **Pauls, S. D**., Gauthier, A., DeSilva, E., Schroer, K., Agile and Active: Sustaining Pedagogical Change in a Large-Enrollment Calculus Course, *J. Effective Teaching.* 2(2) (2019), 1-22. (https://doi.org/10.36021/jethe.v2i2.32)
10. DeFord, D. R.** and Pauls, S. D., Spectral clustering methods for multiplex networks, *Physica A.* 533 (2019), 121949. (https://doi.org/10.1016/j.physa.2019.121949)
11. Khoo, T.**, Fu, F., **Pauls, S. D.**, Double-edged effect of spillover on cooperation in multiplex games, *Scientific Reports,* 8 (2018), 6922. (https://doi.org/10.1038/s41598-018-25025-3)

12. Leib-Lappan, R.**, Kumar, D.*, Obbard, R., and Pauls, S. D. A network model for characterizing brine channels in sea ice, *The Cryosphere,* 12 (2018), 1013-1026. (https://doi.org/10.5194/tc-12-1013-2013)
13. DeFord, D. R.** and Pauls, S. D., A new framework for dynamics on multiplex networks, *J. Complex Networks,* 6(3) (2018), 353-381. (https://doi.org/10.1093/comnet/cnx041)
14. Myung, J. and **Pauls, S. D.,** Encoding seasonal information in a two-oscillator model of the multi-oscillator circadian clock, *Eur. J. Neuroscience,* 48 (2017), 2718-2727. (https://doi.org/10.1111/ejn.13697)
15. **Pauls, S. D.** and Cranmer, S., Affinity Communities in United Nations Voting: Implications for Conflict, Cooperation, and Democracy, *Physica A*, 484 (2017), 428-439. (https://doi.org/10.1016/j.physa.2017.04.177)
16. Khoo, T.**, Fu, F., **Pauls, S. D.**, Coevolution of Cooperation and Partner Rewiring Range in Spatial Social Networks, *Nature Communications,* 6 (2016), 36293. (https://doi.org/10.1038/srep36293)
17. **Pauls, S. D.**, Honma, K-I., Honma, S., Silver, R., Deconstructing circadian rhythmicity with models and manipulations, *Trends in Neuroscience,* 49:6 (2016). 405-419. (http://dx.doi.org/10.1016/j.tins.2016.03.006).
18. Brocklebank, S., **Pauls, S. D**., Rockmore, D., and Bates, T. C., A Spectral Clustering Approach to the Structure of Personality: Contrasting the FFM and HEXACO Models," *Journal of Research in Personality*, 57 (2015), 100-109. (doi:10.1016/j.jrp.2015.05.003)
19. **Pauls, S. D.**, Leibon, G., and Rockmore, D., The Social Identity Voting model: ideology from community structures, *Research and Politics,* April-June 2015, 1-11. (doi: 10.1177/2053168015570415)

    Pauls, S. D., 2015, Replication Data for: The Social Identity Voting model: ideology and community structures, http://dx.doi.org/10.7910/DVN/IMLVVG, Harvard Dataverse.
20. Davis, M., Anthony, D., and **Pauls, S. D.**, Seeking and receiving social support on Facebook for surgery, *Social Science & Medicine,* 131 (2015) 40-47. *(*doi:10.1016/j.socscimed.2015.02.038)
21. **Pauls, S. D.,** Foley, N., LaSautier, J., Hastings, M., Maywood, E., and Silver, R., Differential contributions of intra- and inter-cellular mechanisms to spatial and temporal architecture of the suprachiasmatic nucleus circadian circuitry in wild-type, CRY- and VPAC2 –null mutant mice, *Eur. J. Neuroscience.* 40:3 (2014), 2528-2540. (http://onlinelibrary.wiley.com/doi/10.1111/ejn.12631/full)

    Featured article: Piggins, H. D. "Identifying spatial and temporal organization in the circadian clock (Commentary on Pauls et al.)", EJN, 40:3 (2014) 2527. (http://onlinelibrary.wiley.com/doi/10.1111/ejn.12670/full).
22. Foti, N.**, Pauls, S. D., and Rockmore, D., Stability of the world trade network over time: an extinction analysis, *J. Economic Dynamics and Control,* 37:9 (2013), 1889-1910. (http://dx.doi.org/10.1016/j.jedc.2013.04.009)

23. Hladky, R**. and Pauls, S. D., Area Variations in sub-Riemannian geometry, *Int. Elec. J. Geom.* 6:1 (2013), 8-40. (http://www.iejgeo.com/matder/dosyalar/makale-121/2013-v6-n1-2.pdf)
24. Remondini, D. and Pauls, S. D., A notion of centrality based on the spectrum of the Laplacian, *Phys. Rev. E.,* **85:**066127 (2012). (http://link.aps.org/doi/10.1103/PhysRevE.85.066127)
25. Braun, R., Leibon, G., **Pauls, S. D.**, and Rockmore, D., Partition Decoupling for Multi-gene Analysis of Gene Expression Profiling Data, *BMC Bioinformatics.* **12**:497 (2011). (doi:10.1186/1471-2105-12-497)
26. Danielli, D., Garofalo, N., Nhieu, D. M., and Pauls, S. D., The Bernstein Problem for Embedded Surfaces in the Heisenberg Group H^1, *Indiana University Journal of Mathematics,* **59** (2010), 563-594.
27. Capogna, L., Pauls, S. D., Tyson, J., Convexity in Carnot groups and the horizontal second fundamental form, *Trans. Amer. Math. Soc.* **362** (2010), 4045-4062. (https://doi.org/10.1090/S0002-9947-10-04768-9)
28. Hladky, R.** and Pauls, S. D., Minimal surfaces in the Roto-translation group with applications to a neuro-biological image completion model, *J. Math. Imaging and Vision.* 36:1 (2010), 1-34. (https://doi.org/10.1007/s10851-009-0167-9)
29. Pauls, S. D., Cortical Feature maps via Geometric models, *J. Physiology (Paris),* 103 (2009), 46-51. (https://doi.org/10.1016/j.jphysparis.2009.05.003)
30. Danielli, D., Garofalo, N., Nhieu, D. M., and Pauls, S. D., Instability of graphical strips and a positive answer to the Bernstein problem in the Heisenberg group, *J. Diff. Geom.*, 81:2 (2009), 251-296. (https://projecteuclid.org/euclid.jdg/1231856262)
31. Leibon, G., Pauls, S. D., Rockmore, D., and Savell, R., Topological Structures in the Equities Market Network, *PNAS*, 105:52 (2008), 20589-20594. (doi: 10.1073/pnas.0802806106)
32. Hladky, R.** and Pauls, S. D., Constant mean curvature surfaces in sub-Riemannian geometry, *J. Diff. Geom.* 79:1 (2008), 111-139. (https://projecteuclid.org/euclid.jdg/1207834659)
33. Pauls, S. D., H-minimal graphs of low regularity in H, *Comm. Math. Helv*. 81 (2006), 337-384. (https://doi.org/10.4171/cmh/55)
34. Cole, D.** and Pauls, S. D., C^1 hypersurfaces of the Heisenberg group are N-rectifiable, *Houston J. Math.* 32:6 (2006), 713-724.
35. Pauls, S. D., Minimal surfaces in the Heisenberg group, *Geom. Ded*. 104 (2004), 201-231. (https://link.springer.com/article/10.1023/B:GEOM.0000022861.52942.98)
36. Pauls, S. D., A notion of rectifiability modeled on Carnot groups, *Indiana Univ. Math. J.* **53** (2004), 49-82. (https://www.jstor.org/stable/24903457)
37. Pauls, S. D., The large-scale geometry of nilpotent Lie groups, *Comm. Anal. Geom.*, **9** (2001), no. 5, 951-982. (https://dx.doi.org/10.4310/CAG.2001.v9.n5.a2)

Conference Papers

38. Bonfert-Taylor, P., Ray, L., **Pauls, S.**, Loeb, L., Kursav, M.**, Nguyen, E.*, Reinforcing curricular interventions in data science through experiential learning, ASEE 2025.
39. Bonfert-Taylor, P., Ray, L., **Pauls, S.**, Loeb, L., Sankey, L.*, Busch, J.**, Hickey, T.* Infusing Data Science into the Undergraduate STEM Curriculum, ASEE 2022. https://peer.asee.org/infusing-data-science-into-the-undergraduate-stem-curriculum.pdf
40. Cogswell, C., **Pauls, S. D**., Gauthier, A., DeSilva, E., Schroer, K., Agile and Active: Sustaining Pedagogical Change in a Large-Enrollment Calculus Course, accepted refereed paper for the 2017 ASHE Conference.

Accepted for Publication

Under review

41. Li, Z., Qian, X.**, Szendey, O.**, Kursav, M. N.**, **Pauls, S. D**., A Survey Instrument Exploring Students' Attitudes toward Data Science, Journal of Psychoeducational Assessment.
42. Kursav, M. N.**, **Pauls, S. D.**, Bonfert-Taylor, R., Loeb, L., Ray, L. Intersections of identity and interventions in the impact on student attitudes towards data science, Journal of Statistics and Data Science Education.
43. Kursav, M.**, **Pauls, S. D.**, Learning, Adapting, and Innovating: The Apian Model for Interdisciplinary Teaching. Journal of the Learning Sciences.

In preparation

44. Yao, Y.**, **Pauls, S. D.**, Cannel, A.*, Foley, D., Foley N.**, Silver, R. Oscillatory Phase Waves Across the Entire Suprachiasmatic Nucleus.

Books and Monographs

47. Capogna, L., Danielli, D., Pauls, S. D., and Tyson, J. An Introduction to the Heisenberg group and the sub-Riemannian isoperimetric problem, Progress in Mathematics, volume 259. Birkhäuser, 2007.

Other Products

48. DIFUSE Data Science Module for STEM and Social Science Courses, https://github.com/difuse-dartmouth, 2019-2025

GRANTS AND FUNDING

Davis Foundation, Presidential Grant for Alternate Academic Delivery, $25,000 (Lead investigators: S. Pauls, E. DeSilva), June 2020-Novemeber 2020.

NSF, IUSE-1917002, $2,791,391 (PI: P. Bonfert-Taylor, Co-PIs: L. Loeb, S. Pauls, L. Ray) "DIFUSE: Infusing Data Science into Undergraduate STEM Education," October 1, 2019-September 30, 2025.

NSF, IOS-1749500, $1,450,000 (PI: R. Silver; PI, sub-award ($413,850): S. Pauls) "RUI: Mapping physical networks to functional networks in SCN oscillation," April 1, 2018-March 30, 2024.

NSF, ARC-1304134, $534,884 (PI: R. Obbard, Co-PI: S. Pauls) "Characterization of brine network microstructure in first year arctic sea ice," September 1, 2013 – February 28, 2018.

AFOSR, $752,687 (PI: D. Rockmore, Co-PI: S. Pauls), "Dynamic Information Networks: Geometry, Topology, and Statistical Learning for the Articulation of Structure," July 1, 2011 – June 30, 2015.

NSF, DMS-0548644 $27,000, (PI: J. Tyson, Co-PIs: L. Capogna and S. Pauls), "Conference on geometric analysis and applications", July 12-15, 2006, University of Illinois at Urbana-Champaign

NSF, DMS-0503695, $20,000, (PI: S. Pauls, Co-PIs: L. Capogna and J. Tyson), "Workshop on minimal surfaces, subelliptic PDEs and geometric analysis", March 8-13, 2005, Dartmouth College.

NSF, DMS-0306752, $449,566, (PI: C. Gordon, Co-PIs: P. Doyle, S. Pauls and D. Webb) July 1, 2003 – June 30, 2007.

NSF, DMS-9971563, $53,459 (Post-doctoral addition to M. Wolf's grant) July 1, 2000 - June 30, 2003.

Graduate Research Fellowships at the University of Pennsylvania, Fall 1992, 1995, 1997, Spring 1993

RECENT PROFESSIONAL EXPERIENCE

- *A Survey Instrument Exploring Students' Attitudes towards Data Science*, AERA, April 2025
- *The Impact of a Data Science Project on Student Interns' Development in Data Science*, April AERA, 2025

- *Students' Perspectives Toward Data Science,* PME-NA 2024, November 2024
- *Evaluating the Impact of Faculty UDL Training on Student Experiences,* Universal Design for Learning Conference, Goodwin University, September 2024
- *Toward a More Sustained Implementation of Data Science in Education*, AERA, April 2024
- *Student Perspectives Towards Data Science,* PME-NA, April 2024
- *Engaging Students in Data Science with Authentic Data,* USCOTS, May 2023
- *Spatial Games and Fake News*, 6th International Conference on Computational Social Science, August 2020 (presented by Matt Jones).
- *Link inference in low data resolution regimes*, SIAM Conference on Mathematics of Data Science, May 2020 (presented by Warren Lord).
- *Game theoretic models for synchronization of coupled oscillators*, AMS Regional Meeting, April 2020 (presented by Lizzie Tripp).
- *Game theoretic models for synchronization of coupled oscillators*, Joint Mathematics Meetings, January 2020 (presented by Lizzie Tripp).
- *Agile and Active: Sustaining Pedagogical Change in a Large-Enrollment Calculus Course*, accepted paper for the 2017 ASHE Conference*,* November 2017
- Accepted Talk, *Spectral Clustering Methods for Multiplex Networks,* SIAM Workshop on Network Science*,* Pittsburgh, PA, June 2017.
- Invited workshop, *Community Detection,* Political Networks, June 2017.
- Invited workshop, *Community Detection,* Political Networks, June 2015.

HONORS AND AWARDS

Cheheyl Professorship, 2018-2025
McLane Family Fellowship, 2014-2015
Senior Faculty Fellowship, Spring 2014
Gridley Faculty Fellow, 2011-2012
Gordon Russell 1955 Fellowship, 2007-2008
School of Arts and Sciences 1997 Dean's Award for Distinguished Teaching
Moez Alimohamed Graduate Student Teaching Award, 1995
Departmental Teaching Award, University of Pennsylvania, Fall 1993, 1994, 1996, Spring 1995, 1996

MEMBERSHIPS

American Mathematical Society (AMS)
American Association for the Advancement of Science (AAAS)
Society for Industrial and Applied Mathematicians (SIAM)

STUDENTS AND MENTORING

Post-doctoral mentoring:

1. Robert Hladky, Dartmouth College, Mathematics, 2004-2006
2. Nishant Malik, Dartmouth College, Mathematics, 2015-2018
3. Warren Lord, Dartmouth College, Mathematics, 2018-2021
4. Nicholas Foley, Dartmouth College, Mathematics, Spring-Fall 2020
5. Xavier Navarro Aquino, Dartmouth College, Leslie Center, 2020-2021
6. Adebayo Oluwayomi, Dartmouth College, Leslie Center, 2021-2022
7. Merve Kursav, Dartmouth College, Mathematics, 2022-2024

Graduate Students:

1. Danielle Cole, Dartmouth College, Mathematics, 2005
   Thesis title: *On minimal surfaces in Martinet-type spaces*.
2. Greg Petrics, Dartmouth College, Mathematics, 2011
   Thesis title: *Roto-translation space and the visual cortex.*
3. Katherine Kinnaird, Dartmouth College, Mathematics, 2014
   Thesis title: *Aligned Hierarchies for Sequential Data*
4. Ross Leib-Lappon, Dartmouth College, Engineering, 2016 (co-adviser)
   Thesis Title: *How sea ice microstructure influences the polar transport of salts from the ocean to the atmosphere.*
5. Tommy Khoo, Dartmouth College, Mathematics, 2018 (co-adviser)
   Thesis Title: *Exploring Multiplexity with Evolutionary Game Theory and Complex Networks*
6. Daryl DeFord, Dartmouth College, Mathematics, 2018 (co-adviser)
   Thesis Title: *Matched Products and Dynamical Models for Multiplex Networks*
7. Elizabeth Tripp, Dartmouth College, Mathematics, 2020
   Thesis Title: *Evolutionary Kuramoto Dynamics*
8. Yitong (Pepper) Huang, Dartmouth College, Mathematics, 2021 (adviser of record).
   Thesis Title: *Mathematical Modeling of the Human Circadian Rhythms through Wearable Devices.*
9. Laura Petto, Dartmouth College, Mathematics, 2021 (adviser of record).
   Thesis Title: *Optimization, Statistical Inverse Problems, and Sampling.*

Doctoral Committee memberships:

10. Alan Collins, Dartmouth College, Molecular and Cell Biology, 2019.
11. Xingru Chen, Dartmouth College, Mathematics, 2021.
12. Matthew Jones, Dartmouth College, Mathematics, 2022.
13. Brian Mintz, Dartmouth College, Mathematics, 2025.

Other Graduate Mentoring:

1. Sarah Lee, DIFUSE Graduate Fellow, Winter, Summer 2020
2. Quang Nguyen, DIFUSE Graduate Fellow, Summer 2020

3. Yitong (Pepper) Huang, DIFUSE Graduate Fellow, Fall 2020
4. Clement Nyanhongo, DIFUSE Graduate Fellow, Fall 2020
5. Danielle Fang, DCAL Graduate Assistant, Fall 2020
6. James Busch, DIFUSE Graduate Fellow, Winter, Spring 2021
7. Ayobami Ogunmolasuyi, DIFUSE Graduate Fellow, Spring 2021
8. Monika Roznere, DIFUSE Graduate Fellow, Winter, Spring 2022
9. Philip Mulford, DIFUSE Graduate Fellow, Winter 2023-Winter 2024
10. Emma Vejcik, DIFUSE Graduate Fellow, Fall 2023-Winter 2024

Undergraduate Mentoring:

1. Alyssa Anderson, 2007 (Senior Thesis, Mathematics)
2. Patrick Karas, 2008 (Research Associate, 2006-2008)
3. Katherine Roddy, 2011 (Presidential Scholar 2009-10)
4. Melissa Bearden, 2012 (Research Associate, 2011-2012)
5. Valentina Semenova, 2013 (Senior Thesis, Mathematics)
6. Madeline Kreher, 2013 (Senior Thesis, Mathematics)
7. Mahnum Shahzad, 2015 (Research Associate, Winter 2015)
8. Sarah McGowan, 2016 (Presidential Scholar 2014-15)
9. Matthew Jin, 2017 (Sophomore Science Scholar 2014-15)
10. Deip Kumar, 2018 (Research Associate, 2016-2018)
11. Lefteris Nakos, 2018 (Research Associate, Spring 2016)
12. Katherine Royce, 2019 (Presidential Scholar 2017-18)
13. Brian Schoenfeld, 2019 (Presidential Scholar 2017-18)
14. Sahaj Shah, 2021 (FYREE Scholar, Winter 2018)
15. Andrew Alini, 2019 (NSF funded research associate, Summer 2018-Spring 2019)
16. Yanling Lee, 2021 (E. E. Just Fellow, Summer 2018, Sophomore Science Scholar 2018-19)
17. Pierre Desvallons, 2021 (E. E. Just Fellow, Summer 2018, NSF funded research associate Fall 2018 – Spring 2019, DIFUSE Intern, Summer and Fall 2020)
18. Jason Cheal, 2019 (Senior Thesis, Mathematics, 2018-2019)
19. Iain Sheerin, 2021 (NSF funded research associate, Winter 2019)
20. Andres Rosales, 2021 (NSF funded research associate, Spring-Summer 2019)
21. Austin Red Wing, Pennsylvania State University, 2021 (ASURE Program, Summer 2019, research associate Fall 2019-Spring 2020)
22. Connor Spencer, 2022 (Byrne scholar, NSF Funded Research Associate, Winter-Fall 2020)
23. Devin Montgomery, 2020 (MDSC culminating experience project, Winter/Spring 2020)
24. Elisabeth Baumann, 2022 (DIFUSE Intern, Summer 2020)
25. Vivek Hazari, 2022 (DIFUSE Intern, Fall 2020)
26. Tiffany Yu, 2021 (DIFUSE Project Manager, 2020-2021)
27. Garrett Scott, 2022 (DIFUSE Intern, Winter 2021)
28. Sarah Korb, 2022 (DIFUSE Intern, Winter 2021)

29. Christopher Wright, 2021 (MDSC culminating experience project, Winter/Spring 2021)
30. William Toth, 2023 (DIFUSE Intern, Spring 2021)
31. William Chen, 2022 (DIFUSE Intern, Spring 2021)
32. Taylor Hickey, 2023 (DIFUSE Project Manager, 2021-2023)
33. Sarrah-Ann Allen, 2023 (Presidential Scholar, 2022)
34. Katherine Lasonde, 2023 (DIFUSE Intern, Fall 2021)
35. Logan Sankey, 2023 (DIFUSE Intern, Fall 2021-Spring 2022, Fall 2022)
36. Andrew Bean, 2023 (DIFUSE Intern, Winter, Spring 2022)
37. Sabrina Barton, 2023 (DIFUSE Intern, Winter 2022)
38. Sonal Butala, 2022 (DIFUSE Intern, Spring 2022)
39. Eric Gibson, 2023 (NSF Funded Research Associate, Summer 2022)
40. Joseph Gyorda, 2022. G 2024 (DIFUSE Intern, Summer – Fall 2022)
41. May Oo Khine, 2025 (DIFUSE Intern, Summer -Fall 2022, Winter 2023)
42. Cady Rancourt, 2024 (DCAL Intern, Summer 2023 – Spring 2024)
43. Ben Levesque, 2024 (DIFUSE Intern, Fall 2022-Winter 2023, Project Manager, Spring 2023-Spring 2024)
44. Muna Onuoha, 2025 (DIFUSE Intern, Fall 2022-Winter 2023)
45. Luis Hinojosa, 2024 (DIFUSE Intern, Fall 2022-Winter 2023, Fall 2023)
46. Emma Nguyen, 2025 (DIFUSE Intern, Fall 2023-Winter 2024, Project Manager Spring 2024)
47. Gabrielle Park, 2025 (DIFUSE Intern, Fall 2023-Winter 2024)
48. Liam Cassidy, 2026 (DIFUSE Intern, Fall 2023-Winter 2024)
49. Lindsey Kim, 2024 (DIFUSE Intern, Fall 2023-Winter 2024)
50. Rahul Gupta, 2026 (DIFUSE Intern, Fall 2023-Winter 2024)
51. Ramsey Ash, 2024 (DIFUSE Intern, Fall 2023-Winter 2024)
52. Reshmi Anwar, 2025 (DIFUSE Intern, Fall 2023-Winter 2024)
53. Triumph Kia Teh, 2026 (NSF Funded Research Associate, Winter, Spring 2024)
54. Cricket Cannel, 2025 (NSF Funded Research Associate, Winter, Spring 2024)
55. Sourjymoy Barman, 2026 (Research Associate, Summer 2024)
56. Vani Miglani, 2028, (DCAL GenAI Intern) Spring 2025

COLLEGE SERVICE

Interim Dean of Undergraduate Education, 2025-present
Director, Dartmouth Center for the Advancement of Learning, 2018-2025
Institutional Representative for AAU STEM Education Initiative, 2019-present
FYSEP Faculty Participant, 2010-2024
FYSEP Steering Committee, 2011-2016, 2018-present
Co-chair, Provost Advisory Committee on Classrooms, 2022-2025
Member, Provost's Committee on Online Learning, 2022-2025

Undergraduate co-chair, Steering Committee on Student Mental Health and Wellbeing, 2023-2025
Chair, Provost's Advisory Group on Generative Artificial Intelligence in Pedagogy, Fall 2023
Member, Working Group on Alignment of Academics with Mental Health & Wellbeing, 2022-2023
Steering Committee for the Quantitative Social Science Program, 2009-2023
Chair, Teaching Transition Coordination Group, 2021-2022
Classroom Committee, 2011-16, 2018-2019 (chair), 2019-2022 (co-chair)
Co-chair, Working Group on Student Accessibility Corrective Action Plan, 2019-2021
Chair, Department of Mathematics, 2016-2020
Committee of Chairs (CoC), 2016-2020
Science Divisional Council (SDC), 2016-2020
External Review Committee, Environmental Studies, 2020
External Review Committee, Master's Degree in Health Care Delivery Science, 2020
Steering Committee for the Institute for Writing and Rhetoric, 2013-15, 2019 (Steering Committee dissolved sometime in 2019 or 2020)
Committee on Priorities (CPr), 2012-15, chair 2014-15; 2016-2018
Presidential Task Force on Enrollment Scale, 2017-2018
External Member, Earth Sciences Recruiting Committee, 2017-2018
Advisor to First Year students for Mathematics, 2002-2017
King Scholar Steering Committee, 2013-2016
Vice-chair, Department of Mathematics, 2007-2016
Faculty Coordinating Committee (FCC), 2007-10, 2014-15
Committee on Organization and Policy (COP), 2011-12
Graduate Program Committee, 2005-6, 2007-9 (chair), 2010-11 (chair), 2011-12
Strategic Planning Committee, Graduate Education for the Future, 2011-12
Committee on Instruction (COI), 2006-10, chair 2007-10
Search Committee, Director, Institute for Writing and Rhetoric, 2008