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Education

- Ph.D. Mechanical Engineering, University of Denver, CO, 2009
- M.S. Mechanical Engineering, University of Colorado at Denver, CO, 1999
- B.S. Mechanical Engineering, University of Rajasthan, India, 1989

Professional Experience

- Associate Professor of Mechanical Engineering at CU Denver 2022 – Present
- Director of CEDC's Academic Integrity 2023 – Present
- Assistant Professor of Mechanical Engineering at CU Denver 2013 – 2022
- Faculty Advisor, Society of Women Engineers, CU Denver chapter 2013 – Present
- Director of Engineering Student Services Center at CU Denver 2015 – 2018

Teaching Experience

- MECH 5122 (Advanced Macroscopic Thermodynamics)
- MECH 3012, MECH 3022 (Thermodynamics I,II)
- MECH 3027 (Measurement Systems)
- ENGR 1208 (Interdisciplinary Freshman Experiences)
- ENGR 1200 (Fundamentals of Design Innovations)

Research Experiences

- Engineering Education: Urban STEM Collaboratory; Building STEM Identity and Student Success through Academic, Financial, Social, and Career Support; Funded by: NSF.
- Engineering Education: ENNTICE; Engineering is Not Neutral: Transforming in Instruction via Collaboration and Engagement; Funded by: NSF.
- Multi-phase flow: Computational Methods and Experimental Measurements; Funded by: NSF.
- Aerosol particle distribution in stratosphere; Funded by: NASA.

Selected Recent Publications

- **Darbeheshti, M.**, Howland Cummings, M., Schupbach, W. T., Russomanno, D. J., Ivey, S. S., Alfrey, K. D., Altman, T., Jacobson, M. S., Stewart, C. O., Goodman, K. (2023). NSF S-STEM Track 3: Scaling Up Student Success through Broadening Participation Beyond our S-STEM Cohort. *2023 ASEE Annual Conference*.
- Stewart, C. O., Campbell, J. T., Chase, T., **Darbeheshti, M.**, Goodman, K., Hashemikamangar, S., Howland Cummings, M., Ivey, S. S., Russomanno, D. J., (2023). Communicating identity in the Urban STEM Collaboratory: Toward a communication theory of STEM identities. *International Journal of Science Education, Part B*, 1–17. <https://doi.org/10.1080/21548455.2023.2179380>.
- Ivey, S., Campbell, J., Robinson, A., Stewart, C. O., Russomanno, D. J., Alfrey, K., Watt, J., Chase, T., **Darbeheshti, M.**, Howland Cummings, M., & Goodman, K. (2023). Urban STEM Collaboratory after two years: A multi-institutional approach to the success of financially disadvantaged students. *Journal of STEM Education*, 24(1).
- Howland Cummings, M., Schupbach, W. T., Altman, T., Jacobson, M. S., Goodman, K., **Darbeheshti, M.** (2023). Making Meaning through Mentorship: A Student-Led Layered Peer Mentorship Program. *2023 ASEE Annual Conference Proceedings*.
- Wortman-Wunder, E. M., Howland Cummings, M., **Darbeheshti, M.** (2023). "I'm not a big English person but I liked this class": Lessons from a collaboration between the School of Engineering and the English Department. *2023 ASEE Annual Conference Proceedings*.
- Goodman, K.A., **Darbeheshti, M.**, Mays, D.C., Altman, T., Johnson, H.L. (2023). From cohort to classroom: Transitioning to year 2 in a faculty learning community, Annual Conference, *American Society for Engineering Education, Baltimore, Maryland, June 25-28, 2023*.
- **Darbeheshti, M.**, Howland Cummings, M., Jacobson, M., Altman, T., Goodman, K. (2022), Three Years of the Urban STEM Collaboratory, *American Society of Engineering Education Conference*, <https://peer.asee.org/42104>.
- Howland Cummings, M., **Darbeheshti, M.**, Ivey, S., Stewart, C., Russomanno, D., King,

D., Goodman, K., Altman, T., Jacobson, M. (2022). Summer Bridge Programming for Incoming First-Year Students at Three Public Urban Research Universities. *American Society of Engineering Education Conference*, <https://peer.asee.org/41415>.

- Collopy, A.X., Johnson, H.L., Goodman, K.A., Altman, T., **Darbeheshti, M.**, Wood, K.L., Mays D.C. (2022), Exploring nudging approaches for growing a culture of diversity and inclusion with engineering faculty, *Annual Conference, American Society for Engineering Education, Minneapolis, Minnesota, June 26-29, 2022*.
- Mays, D.C., **Darbeheshti, M.**, Altman, T., Goodman, K., Johnson, H.L., Evans, M. (2022), Nudging engineering faculty toward best practices for equity and inclusion, *Engineering Education and Centers (EEC) Grantees Conference, U.S. National Science Foundation, Arlington, Virginia, September 22-23, 2022*.
- **Darbeheshti, M.**, Howland Cummings, M., Schupbach, W. T., Russomanno, D. J., Ivey, S. S., Alfrey, K. D., Altman, T., Jacobson, M. S., Stewart, C. O., Goodman, K. (2022). Three Years of Urban STEM Collaboratory, *Engineering Education and Centers (EEC) Grantees Conference, U.S. National Science Foundation, Arlington, Virginia, September 22-23, 2022*.
- Stewart, Craig. O., **Darbeheshti, M.**, Ivey, S. S., Russomanno, D. J., Howland Cummings, M., Simon, G. E., Schupbach, W. T., Jacobson, M. S., Altman, T., Alfrey, K. D., & Goodman, K. (2021), An Initial Exploration of Engineering Student Perceptions of COVID's Impact on Connectedness, Learning, and STEM Identity, *American Society of Engineering Education Conference*. 10.18260/1-2-36670.
- Howland Cummings, M., **Darbeheshti, M.**, Simon, G. E., Schupbach, W. T., Jacobson, M. S., Altman, T., & Goodman, K. (2021), Comparing Student Outcomes from Four Iterations of an Engineering Learning Community, *American Society of Engineering Education Conference*, 10.18260/1-2-36519.
- **Darbeheshti, M.**, Schupbach, W., Lafuente, A.C., Altman, T., Goodman, K., Jacobson, M.S. O'Brien, S., (2020), Learning Communities: Impact on Retention of First-Year students, *American Society of Engineering Education Conference*, 10.18260/1-2-34899.
- Peters, D., **Darbeheshti, M.**, Vernaza, K. (2020), How students view the role of faculty advisors in the SWE organization? How faculty advisors and counselors view their role in the Society of Women Engineers organization? *American Society of Engineering Education Conference*, 10.18260/1-2-34734.
- Rihana Abdollah, A., Peters, D., **Darbeheshti, M.**, (2019), How faculty advisors and counselors view their role in the Society of Women Engineers organization? *American Society of Engineering Education Conference*, 10.18260/1-2-32896.
- **Darbeheshti, M.**; Ingber, M. (2019), Binary interaction of stochastically rough, charged spheres in planar Couette and Poiseuille flow, *Journal of Rheology*, 63(1):45-53. 10.1122/1.5043103.
- **Darbeheshti, M.**; Edmonds, D. (2018), A Creative First-Year Program to Improve Student Retention in Engineering, *Journal of Engineering Education*, 10.18260/1-2-29672.
- **Darbeheshti, M.**; Stokan, J.; Dam, U.; Ingber, M.(2016), The effects of surface roughness on particle dispersion, migration and self-diffusivity in linear and nonlinear shear flows, *International Journal of Computational Methods and Experimental Measurements*; Vol 4, November 2016, 4(4):561.

Awards and Recognitions

- Faculty Inclusive Excellence Award, University of Colorado Denver – 2023
- Excellence in Teaching Award, College of Engineering, Design and Computing – 2020
- Excellence in Teaching Award, Campus level, University of Colorado Denver – 2020
- Chancellor's Faculty Fellowship Award – 2019
- Mentoring Advocate Fellowship Award – 2017
- Feminist of the year Award, University of Colorado Denver – 2013
- NASA Award, Mission TC4, Costa Rica and Panama – 2007
- NASA Award, Mission CR-AVE, Houston, TX – 2006
- NASA mission AVE (Aura Validation Experiment), Houston, TX – 2005

External and Internal Support Received

- NSF S-STEM – 2018, **\$1.59 M**, PI: Urban STEM Collaboratory; Building STEM Identity and Student Success through Academic, Financial, Social, and Career Support.
- NSF BP – 2021, **\$350,000**, co-PI: ENNTICE; Engineering is Not Neutral: Transforming in Instruction via Collaboration and Engagement.
- CU Denver – 2018, **\$6,500**, CFD and Thingstudio Fellowships.