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Priyadarshi Dey

Employment

Millsaps College — Jackson, MS
Assistant Professor of Mathematics — Aug 2025 – Present

Kenyon College — Gambier, OH
Visiting Assistant Professor — Aug 2023 – Jul 2025

University of South Florida — Tampa, FL
Visiting Assistant Professor — Aug 2022 – Jul 2023

Virginia Tech — Blacksburg, VA
Instructor of Mathematics — Aug 2021 – Jul 2022

Education

University of Memphis, Department of Mathematical Sciences — Memphis, TN
Ph.D. in Mathematics — 2016 – 2021

- Advisor: Dr. Fernanda Botelho
- Thesis: **Hermitian Projections and Geometric Properties of Banach Spaces**
- Research areas: Operator Theory, Functional Analysis, Banach Space Geometry

Research Articles

Published

1. Botelho, F., **Dey, P.**, Easley, Z. Projections in the convex hull of isometries on absolutely continuous function spaces. *Journal of Mathematical Analysis and Applications*, 2023. [Journal]
2. Botelho, F., **Dey, P.**, Ilišević, D. Hermitian projections on some Banach spaces and related topics. *Linear Algebra and Its Applications*, 2020. [Journal]

Preprints

1. Amrutam, T., **Dey, P.**, Liu, C., Monika. The Bishop–Phelps–Bollobás property for extremally disconnected ranges: separable and low-density domains. Preprint, 2026. [arXiv]
2. Amrutam, T., **Dey, P.**, Monika. On the convergence of numerical index via operator openings and ultraproducts. Preprint, 2026. [arXiv]
3. **Dey, P.**, Easley, Z., Monika. Projections in the algebra generated by an n-potent operator. Preprint, 2025. [arXiv]

Teaching

Millsaps College | Department of Mathematics — 2025 – Present

- Real Analysis (S26, S27); Mathematical Statistics (F26); Introduction to Advanced Mathematics (F25)
- Analytical Geometry & Calculus I (F25, two sections); Elementary Statistics (S26, F26, S27; two sections each)

Kenyon College | Department of Mathematics & Statistics — 2023 – 2025

- Real Analysis I–II (F24, S25); Linear Algebra (F23, S24, F24); Calculus II (F23)
- Elements of Statistics (S24, S25; two sections each)

University of South Florida & Virginia Tech | — 2021 – 2023

- Linear Algebra, Engineering Calculus II, Calculus II (USF, 2022–2023); Calculus of a Single Variable (Virginia Tech, 2021–2022)

Student Mentoring

- Senior Capstone Advisor, "*Investigating the Derivation of Real and Complex Fourier Coefficients*," Department of Mathematics & Statistics, Kenyon College. 2023
- Graduate Student Mentor, NSF grant "*Promoting Success in Undergraduate Mathematics Program*" (PI: John Haddock), University of Memphis. 2019 – 2021

Awards and Honors

- AMS–ICM 2026 Travel Grant (funded by NSF), for early career mathematicians to attend ICM 2026, Philadelphia, PA. Spring 2026
- AMS–MCA 2025 Travel Grant (funded by NSF), Mathematical Congress of the Americas, University of Miami, FL (declined). Summer 2025
- JMM Travel Grant for PUI faculty, for delivering a talk at JMM 2024. Spring 2024
- DMS Research Award, University of Memphis, for excellent progress toward the doctorate. Spring 2021
- Outstanding Graduate Assistant Award, University of Memphis. Spring 2021
- Invited participant, MSRI Summer Graduate School Mathematics of Big Data: Sketching and (Multi-) Linear Algebra, Berkeley, CA. Summer 2021
- Cecil C. Rousseau Award, University of Memphis, for excellent progress toward the doctorate and an excellent teaching record. Fall 2020
- Travel Enrichment Fund, University of Memphis, for presenting at IWOTA 2019. Summer 2019

Professional Development

- Project NExT Fellow (Silver '26 cohort), Mathematical Association of America.

Invited Talks

- "**Projections and Isometries: Interconnections in Infinite-Dimensional Spaces**," Ohio Speaker Circuit, Oberlin College, Oberlin, OH. April 2025
- "**Exploring Connections between Isometries and Projections on Banach Spaces**," Math Mondays, Kenyon College, Gambier, OH. November 2023
- "**Recent Results in Hermitian Projections on Banach Spaces**," One Day in Operator Theory, University of Memphis, Memphis, TN. February 2020
- "**Hermitian Projections on Operator Spaces**," IWOTA 2019, University of Lisbon, Portugal. July 2019

Contributed Talks & Posters

- Poster: "**Structure of Projections in algebras generated by n-potent operators**," International Congress of Mathematicians (ICM 2026), Philadelphia, PA. July 2026
- "**Projections in the Algebra Generated by an n-potent Operator**," South Eastern Analysis Meeting (SEAM 42), University of Richmond, Richmond, VA. March 2026
- "**A Class of Projection and Its Characterization on Banach Spaces**," New Faces in Operator Theory, JMM 2025, Seattle, WA. January 2025
- "**Projections in the Combination of Powers of Operators of Finite Order**," AMS Special Session on New Faces in Operator Theory and Function Theory, JMM 2024, San Francisco, CA. January 2024
- "**Projections in the Convex Hull of Surjective Isometries**," Ohio River Analysis Meeting XII (ORAM), University of Cincinnati, Cincinnati, OH. March 2023
- "**Hermitian Projections on Some Operator Spaces**," 38th South Eastern Analysis Meeting (SEAM), University of Florida, Gainesville, FL (online). March 2022

Professional Service

- Reviewer, Mathematical Reviews, American Mathematical Society. 2026 – Present
- Referee, Journal of Contemporary Mathematics. Summer 2023
- Panel member, Undergraduate Honor System, Virginia Tech. Fall 2021
- Facilitator, One Day in Operator Theory, University of Memphis. February 2020

References

Fernanda Botelho, mbotelho@memphis.edu, *Professor Emeritus*, University of Memphis.

Catherine Beneteau, cbenetea@usf.edu, *Professor*, University of South Florida.

Erin Leatherman, leatherman1@kenyon.edu, *Associate Professor*, Kenyon College.