Priyadarshi Dey

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Employment

Millsaps College — Jackson, MS
Assistant Professor — 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

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

- Advisor: Dr. Fernanda Botelho
- Thesis title: Hermitian projections and Geometric properties of Banach spaces.
- Research area: Operator theory, Functional Analysis, Operator Algebras, Harmonic analysis.

Department of Mathematics & Statistics, Indian Institute of Science Education & Research — Kolkata, India
M.S. in Mathematics — 2013-2016

- Thesis title: Theory of Majorization and its Applications.

Student Mentoring

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

Teaching

Millsaps College | Department of Mathematics — 2025- Present

- MATH 4630 : Real Analysis, S26
- MATH 1150 : Elementary Statistics, S26 (×2)
- MATH 2310 : Introdunction to Advanced Mathematics, F25
- MATH 1220 : Analytical Geometry & Calculus I, F25 (×2)

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

- MATH 341 : Real Analysis I, F24
- MATH 342 : Real Analysis II, S25
- MATH 224 : Linear Algebra, F24, F23, S24
- STAT 106 : Elements of Statistics, S25 (×2), S24 (×2)
- MATH 112 : Calculus II, F23

University of South Florida | Department of Mathematics and Statistics — 2022-2023

- MAS 3105 : Linear Algebra, S23
- MAC 2282 : Engineering Calculus II, S23
- MAC 2312 : Calculus II, F22 (× 2)

Virginia Tech | Department of Mathematics — 2021-2022

- MATH 1226 : Calculus of a Single Variable, S22 (×2)
- MATH 1225 : Calculus of a Single Variable, F21 (× 3), S22

Research Articles

1. **Dey, P.**, Easley, Z., Monika. Projections in the "Complex convex hull" of operators of finite order. Submitted, 2025.
2. Botelho, F., **Dey, P.**, Easley, Z. Projections in the convex hull of isometries on Absolutely Continuous Function Spaces. *Journal of Mathematical Analysis and Applications*, 2022.
3. Botelho, F., **Dey, P.**, Ilisevic, D. Hermitian projections on some Banach spaces and related topics. *Linear Algebra and Appl.*, 2020.
4. **Dey, P.**, Shekhtman, B. Bi-contractive projections onto finite dimensional Banach spaces, in preparation.

Awards and Honors

- Recipient of JMM travel grant for primarily undergraduate institution (PUI) faculty for attending and delivering a talk at JMM, 2024. Spring 2024
- Recipient of DMS 2021 Research Award for an excellent progress toward achieving the doctoral degree. Spring 2021
- Recipient of Outstanding 2021 Graduate Assistant Award. Spring 2021
- Selected to participate in the Summer Grad School Mathematics of Big Data: Sketching and (Multi-) Linear Algebra at MSRI, Berkley. Summer 2021
- Recipient of Cecil C. Rousseau award for an excellent progress toward achieving the doctoral degree and an excellent teaching record. Fall 2020
- Recipient of Travel Enrichment fund, University of Memphis for presenting in IWOTA 2019. Summer 2019
- Recipient of AMS Travel Grant for attending Fall Southeastern Sectional Meeting. Fall 2018

Invited Talks

- **"Projections and Isometries: Interconnections in Infinite-Dimensional Spaces"** at Ohio Speaker Circuit, Oberlin College, Oberlin, OH. April 2025
- **"A class of projection and its characterization on Banach Spaces"** at New Faces in Operator Theory, JMM 2025, Seattle. January 2025
- **"Projections in the combination of powers of operators of finite order"** at AMS Special Session on New Faces in Operator Theory and Function Theory, JMM 2024, San Francisco. January 2024
- "**Exploring connections between Isometries and Projections on Infinite Dimensional Spaces**" at Math Mondays, Kenyon College, Gambier, Ohio. November 2023
- "**Projections in the convex hull of Surjective isometries**" at Ohio River Analysis Meeting XII (ORAM), University of Cincinnati. March 2023
- "**Hermitian projections on some operator spaces**" at 38th South Eastern Analysis Meeting, University of Florida (held online due to COVID). March 2022
- "**Recent results in Hermitian Projections on Banach spaces**" at One day in Operator Theory, University of Memphis. February 2020
- "**Hermitian Projections on Operator spaces**" at IWOTA 2019, University of Lisbon, Portugal. July 2019

Service

- Served as a referee for the Journal of Contemporary Mathematics. Summer 2023
- Served as a panel member for Undergraduate Honor System, Virginia Tech. Fall 2021
- Worked as a facilitator for the conference One day in Operator Theory. February 2020

Computer Skills

Languages: `R`, Python.

Softwares: `Maple`, `LaTeX`.

References

Fernanda Botelho, mbotelho@memphis.edu, *Professor*, University of Memphis.
Catherine Beneteau, cbenetea@usf.edu, *Professor*, University of South Florida.
Erin Leatherman, leatherman1@kenyon.edu, *Associate Professor*, Kenyon College.
Marie Snipes, snipesm@kenyon.edu, *Associate Professor*, Kenyon College.