PRITHA CHAKRABORTY
CURRICULUM VITÆ

October 9, 2025

CONTACT INFORMATION

Mail: Texas State University, Dept. of Mathematics MCS 470, Pickard St, San Marcos, TX 78666
Phone: +1 806 281 0445 (mobile)
E-mail: p_c194@txstate.edu

SUMMARY

Highly motivated and experienced mathematics instructor with 8+ years of experience in higher education, with a proven track record of teaching a wide range of undergraduate courses, including Calculus, Linear Algebra, and Differential Equations. Dedicated to fostering student engagement and success through innovative teaching methods and online course development. Passionate about research in complex analysis and its applications.

EXPERIENCE

- *Assistant Professor of Instruction*| Texas State University | Sep 2024 - Present
  - Contributed to the College Algebra transformation project through quiz bank creation and post-Test reflection surveys.
  - Founded and led the Online Teaching Forum, promoting collaboration, technology use, and professional growth among faculty.
  - Served as Gradescope pilot lead, coordinating across departments and administration for expansion through 2026.
  - Collected user feedback, analyzed data, and delivered faculty development sessions on effective grading practices.
  - Managed recruitment outreach at the Lucian Symposium, engaging with potential graduate students.
  - Supported tutoring and SI program growth at the Round Rock campus through student leader mentoring.
  - Organized and maintained Gradescope and forum resources to ensure consistency and long-term usability.
  - Co-organized Derivative Bootcamp events, overseeing logistics, volunteer coordination, and post-event analysis.
  - Developed and implemented innovative teaching strategies to enhance student learning and engagement in diverse online and hybrid learning formats.
  - Streamlined course management processes using Canvas, Top Hat, and other digital tools, improving instructor efficiency and student outcomes.
  - Revamped the Canvas page for Calculus I to simplify navigation, standardize materials, and improve accessibility for instructors and students.
  - Mentored and supported new instructors, teaching assistants, and LAs, fostering collaboration and a supportive teaching environment.
  - Coordinated with faculty and administration to strengthen communication, collaboration, and resource allocation for instructional support.
  - Contributed to the development of comprehensive instructional guides for online and hybrid delivery, improving usability and consistency.
  - Integrated the Examity virtual proctoring platform to enhance fairness and integrity in online assessments.
  - Implemented Top Hat for interactive learning, real-time feedback, and increased student engagement.
  - Led faculty discussions on AI use, online assessment redesign, and responsible integration of technology in teaching.
  - Facilitated sessions on engagement strategies and shared curated resources on instructional tools and best practices.
  - Organized Calculus I coordination, including policy alignment, scheduling, and lab instructor support.
  - Designed detailed weekly schedules aligned with Gen Ed and SACS outcomes and co-led the Derivative Bootcamp.
- *Lecturer*| Texas State University | Aug 2017 - Aug 2024
  - Designed and delivered engaging lectures and lab activities for a variety of undergraduate mathematics courses.
  - Developed and maintained effective online courses using Canvas and other platforms, consistently exceeding student expectations and fostering a positive learning environment.

- Leveraged instructional technologies, including Zoom, TopHat, Google Slides, and Microsoft Teams, to create interactive and engaging learning experiences.
- Provided individualized support and mentorship to students, addressing their learning challenges and promoting their academic success.
- Assisted with the development and implementation of assessment strategies to evaluate student learning and identify areas for improvement.
- Collaborated with fellow instructors to share best practices and develop innovative teaching methodologies that enhance student learning outcomes.

- *Visiting Assistant Professor* | Texas A&M University Corpus Christi | August 2016 - May 2017
  - Designed and taught undergraduate mathematics courses, fostering a positive and inclusive classroom environment.
  - Developed and implemented effective teaching strategies to promote student learning and engagement.
  - Provided individualized support and mentorship to students, promoting their academic success.
- *Graduate Part-Time Instructor* | Texas Tech University | August 2011-May 2016
  - Independent teaching and grading responsibilities for various undergraduate mathematics courses.

EDUCATION

8/2011 – 5/2016	Ph.D. (Mathematics), Texas Tech University, Lubbock, TX Dissertation title: *Extremal Problems on Bergman Spaces*
8/2009 – 5/2011	M.Sc. (Mathematics), Indian Institute of Technology (IIT), Madras, India Thesis title: *Hardy spaces and a glimpse of Bergman spaces*
8/2006 – 7/2009	B.Sc. (Mathematics), Jadavpur University, Kolkata, India

TEACHING EXPERIENCE

- Math 1300, 1315, 1316, 1319, 1311, 2417, 2321, 2358, 2471, 2472, 2393, 3323, 3377
- Designed and delivered courses in both traditional and online formats.
- Developed course materials and assessments to enhance student learning and engagement.
- Implemented various technologies to foster interactive and engaging learning experiences.
- Mentored and supported teaching assistants and new instructors.

PROFESSIONAL SERVICE

- Forum Leader, Online Teaching Forum (Spring 2025 - Present)
- Forum Leader, Calculus 1 Teaching Forum (Fall 2024 - Present)
- Gradescope Liaison and Pilot Leader (Spring 2025 - Present)
- Organizer, Derivative Bootcamp (Fall 2024, Spring 2025)
- Forum Leader, Calculus 2 Teaching Forum (Fall 2022 - Spring 2023, Fall 2020 - Spring 2021)
- Forum Leader, Calculus 3 Teaching Forum (Fall 2021 - Spring 2022)
- Instructor Support & Technology Integration Specialist (Spring 2023 - Present)
- Team Member, STEM Communities Department Instructional Assessment (DIA) Program (Fall 2021 - Spring 2022)
- Poster Judge, WiSE Conference (2018, 2019)
- 5th Annual Texas State Calculus Bee Competition Committee Member (2018)

RESEARCH AND PROJECTS

- Math 1315 Course Transformation Project | Summer 2025
- Implemented Structured "Tutoring Log" Assignment as Part of Course Assessment (1315, 1329, 2321, 2471) |Fall 2023 to Present
- Implemented "Post Test Survey" (1315, 2471, 2321, 1329) | Spring 2023 - Present
- Implemented Structured "Group Project" in Calculus III with Rubric Integration in Canvas and Microsoft Teams | Summer 2022

RESEARCH INTEREST

I am primarily interested in complex analysis in one variable, with a particular focus on complex-valued analytic function spaces and their applications in operator theory and potential theory. My research explores the rich interactions between these areas, especially as they pertain to solving problems in both theoretical and applied mathematics.

PUBLICATIONS

1. (with A.Solynin), *Korenblum-Type Extremal Problems in Bergman Spaces*, arXiv:1507.06356.
2. *Growth of hyperbolic cells*, arXiv:1507.06355

PROFESSIONAL DEVELOPMENT

- *Getting Started with TopHat*, 2025

- *AI in Teaching and Learning Symposium*, 2025
- *Promotion for Non Tenure Line Faculty*, 2025
- *ESCALA: Increasing Latinx Student Success*, April 2021
- *Designing Open Book/Open Note Multiple Choice Exams*, January 2021
- *Zoom for Faculty*, April 2020

SKILLS

- Teaching & Pedagogy: Hybrid Instruction, Online Instruction (Zoom/Microsoft Teams), Assessment Tools (Gradescope), Course Design, Engagement Tools (TopHat, Google Slides)
- Technology: Learning Management Systems (LMS) - Canvas, Blackboard, Brightspace, E-learning Tools (GeoGebra, Desmos, Mathematica, Matlab)
- Research: Pedagogical Quantitative Research using Canvas Surveys, Microsoft Forms.
- Other: Collaboration, Communication, Mentorship, Curriculum Development, Student Success, Time Management, Problem-Solving, Leadership, Presentation Skills.

LICENSURE AND CERTIFICATIONS

1. Teaching Online at Texas State, Texas State University, 2020
2. Certificate of Professional Development in Best Practices for Online Course Design, Texas A&M University Corpus-Christi, 2017