

PRIYANKA GOPE

Music Academic | Vocalist | Music Educator | Researcher

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Professional Profile

Music academic, vocalist, educator, and researcher with a PhD in Music from the University of Dhaka and extensive experience in higher education, specialist music instruction, classical vocal performance, recording, and broadcast media. Associate Professor in the Department of Music, University of Dhaka, with national and international performance experience and major recognition including the National Film Award for Best Female Playback Singer. Research interests span adaptive music therapy, music cognition, emotion regulation, cognitive ageing, predictive processing, and personalized music interventions.

Education

University of Dhaka <i>PhD in Music</i>	2019 <i>Dhaka, Bangladesh</i>
Rabindra Bharati University <i>Master of Music (M.Muse), 2-year program</i>	2008 <i>Kolkata, India</i>
Rabindra Bharati University <i>Bachelor of Music (B.Muse), 3-year program; ICCR Scholarship</i>	2006 <i>Kolkata, India</i>
Kumudini Govt. Girls College <i>Higher Secondary Certificate (HSC), Science</i>	2002 <i>Tangail, Bangladesh</i>
Bindu Basini Govt. Girls High School <i>Secondary School Certificate (SSC), Science</i>	2000 <i>Tangail, Bangladesh</i>

Academic & Teaching Experience

University of Dhaka <i>Associate Professor, Department of Music</i> - Teach and mentor students in music while contributing to the academic and research activities of the Department of Music. - Integrate music scholarship with practical expertise in vocal performance, music education, and research-oriented learning.	2012 – Present <i>Dhaka, Bangladesh</i>
University of Development Alternative (UODA) <i>Guest Teacher, Department of Music</i> Provided academic and practical music instruction to students in the Department of Music.	2009 – 2012 <i>Dhaka, Bangladesh</i>
Chhayanaut Music School <i>Music Teacher</i> Delivered structured music education and vocal training, supporting musical interpretation and performance development.	2009 – 2015 <i>Dhaka, Bangladesh</i>
Bangladesh Shilpakala Academy <i>Music Instructor</i> Provided music instruction and practical performance training within a national cultural institution.	2012 – 2017 <i>Bangladesh</i>

Performance, Broadcast & Recording

- Enlisted artist of **Bangladesh Television** since 2000 and **Bangladesh Radio** since 2000.
- Performed Indian Classical Vocal music in national and international programs in the **USA, Canada, Russia, India, and Nepal**.
- Extensive vocal performance experience across stage programs, television channels, radio, playback singing, and recorded music.
- First solo album published by **Bengal Foundation** in 2010; subsequently released 4 additional solo albums and 16 duet/mixed albums through other production houses.

Awards & Honors

National Film Award – Best Female Playback Singer	2015
Channel I Award – Best Nazrul Singer	2022, 2024
Channel I Award – Best Classical Singer	2016, 2017
RTV Award – Best Female Artist	2016
National Tagore Sammelon – 1st Place in Tagore Song	2001
National Education Week – Champion in Nazrul Song	2000

Research Profile

Interdisciplinary research at the intersection of music, psychology, cognition, therapeutic practice, and data-informed personalization. Current work examines how adaptive musical experiences can support emotional regulation, social engagement, cognitive functioning, depression-related outcomes, dementia care, autism-related engagement, and healthy cognitive ageing. A further strand explores predictive-processing approaches to precision music medicine and state-conditioned music selection.

Selected Research Manuscripts

Adaptive Music Therapy Across Dementia, Autism Spectrum Disorder, and Depression: A Sequential Explanatory Mixed-Methods Randomized Controlled Trial *Draft*

- Multi-cohort randomized controlled study with **216 participants** across dementia, autism spectrum disorder, and depression, comparing adaptive music therapy with attention control at baseline, post-treatment, and 3-month follow-up.
- Combines longitudinal treatment-effect estimation with correlation, multivariable prediction, mediation analysis, qualitative explanatory inquiry, treatment fidelity, and implementation assessment.
- The manuscript reports social-engagement change as the strongest process correlate and independent process predictor of clinical improvement, with the largest treatment effects observed in the depression cohort.

Precision Music Medicine Through Predictive Processing: Adaptive Interventions for Emotion Regulation, Depression, and Cognitive Ageing *Draft*

- Multisource computational secondary-data study integrating an affective catalogue of **11,267 tracks**, a **34-participant** randomized personalized-listening trial reanalysis, and cognitive-ageing modelling in **150 older adults**.
- Uses valence-arousal geometry, baseline-adjusted treatment contrasts, permutation robustness checks, leakage-controlled cross-validation, ridge logistic regression, and a state-conditioned adaptive decision simulation.
- Develops a predictive-processing architecture that links listener vulnerability, affective mismatch, catalogue reachability, and adaptive music-selection constraints while keeping causal treatment inference separate from predictive modelling.

Research Interests

Adaptive Music Therapy | Music Cognition | Emotion Regulation | Cognitive Ageing | Precision Music Medicine | Predictive Processing | Music Psychology | Music and Well-Being | Personalized Music Interventions

Research Methods & Analytical Experience

- Randomized controlled designs; sequential explanatory mixed methods; longitudinal and multi-cohort study designs.
- Linear mixed-effects modelling, correlation analysis, multivariable regression, mediation analysis, effect-size estimation, and robustness testing.
- Qualitative thematic analysis, mixed-methods integration, implementation analysis, fidelity assessment, and stakeholder-informed interpretation.
- Secondary-data analysis, predictive modelling, cross-validation, permutation testing, valence-arousal analysis, and adaptive decision simulation.

Scholarly & Creative Output

- Published **8 articles** in national and international publications.
- Authored current research manuscripts on adaptive music therapy and predictive-processing-based precision music medicine.
- Recorded output includes a Bengal Foundation solo album (2010), 4 subsequent solo albums, and 16 duet/mixed albums.

Core Expertise

- Indian Classical Vocal performance; Nazrul Sangeet; Tagore Song; playback and broadcast performance.
- University-level music education, student mentoring, vocal instruction, performance development, and academic research.
- Interdisciplinary collaboration across music therapy, psychology, cognition, neuroscience-informed music research, and digital health.