CONTACT

Subhasish Behera

📍 Department of Mathematics, Binayak Acharya College, Brahmapur, India

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BIOSKETCH

- I am an Assistant Professor (OES-I) in Mathematics at the Department of Mathematics, Binayak Acharya College, Brahmapur, Odisha. Prior to this position, I was senior research fellow (Ph.D.) at the Indian Institute of Technology Bhubaneswar under Dr. Sasmita Barik.

PERSONAL DETAILS

- Date of Birth   : 05/05/1995
- Marital Status : Unmarried
- Nationality   : Indian

EDUCATION

2023
- **IIT Bhubaneswar**
  Ph.D.

2018
- **Utkal University**
  M.Phil.

2017
- **Utkal University**
  M.Sc.

2015
- **Ravenshaw University**
  B.Sc.

2012
- **CHSE Odisha**
  Intermediate

2010
- **BSE Odisha**
  HSC

EXPERIENCE

20/07/2020 - 31/07/2023
- **Senior Research Fellow (CSIR)**
  IIT Bhubaneswar

20/07/2018 - 20/07/2020
- **Junior Research Fellow (CSIR)**
  IIT Bhubaneswar

PROJECTS

- **(1) On Compact Topological Spaces**
  M.Sc. Project
- **(2) A Study on Compact Topological Spaces and Its Applications**
  M.Phil. Project

RESEARCH

- Research Interests: Eigenvalues of Graphs and Its Applications to Mathematical Chemistry; Combinatorial
  Matrix Theory
  Ph.D. Thesis: The Smallest Positive Eigenvalue of Bipartite Graphs with a Unique

Perfect Matching

RESEARCH PROFILE

- Google Scholar: https://scholar.google.com/citations?hl=en&user=kMiFgz8AAAAJ
- Researchgate: https://www.researchgate.net/profile/Subhasish-Behera-2
- Orcid Id: 0009-0008-2308-3757

PUBLICATIONS

- (1) S. Barik and S. Behera, On the smallest positive eigenvalue of bipartite unicyclic graphs with a unique perfect matching, Discrete Mathematics, 346(2):113252, (2023).

- (2) S. Barik and S. Behera, On the smallest positive eigenvalue of bipartite unicyclic graphs with a unique perfect matching II, Linear and Multilinear Algebra, DOI:10.1080/03081087.2023.2177247, (2023).

- (3) S. Barik and S. Behera, On integer matrices with integer eigenvalues and Laplacian integral graphs, Discrete Mathematics, 347 (1):113707, (2024).

- (4) S. Behera, Solution to the cardinality of Hadamard matrices, The Bulletin of the International Linear Algebra Society (IMAGE), 67:25−26, (2021).

PRESENTED PAPERS IN CONFERENCES

- (1) On the smallest positive eigenvalue of bipartite graphs , 25th Conference of the International Linear Algebra Society (ILAS-2023), Universidad Politécnica de Madrid, Madrid, Spain, June 12-16, 2023.

  (2) On the eigenvectors of Laplacian matrices, 2nd International Conference in Applied Mathematics in Science and Engineering (AMSE 2022), ITER, Siksha 'O' Anusandhan, Bhubaneswar, India, March 24-26, 2022.

  (3) A study on compact topological spaces, National Seminar on Statistics in Research: Trends and Applications, Utkal University, Bhubaneswar, India, April 15, 2018.

ATTENDED CONFERENCES/SEMINARS/WEBINARS

- (1) National Webinar on Differential Equations and Applications, Department of Mathematics, Rajiv Gandhi University, Doimukh, September 27, 2024.

  (2) World is Full of Networks! An International Webinar on the Applications of Graph Theory, Sri H. D. Devegowda Government First Grade College, India, January 27, 2023.

  (3) National Workshop on Analysis and Linear Algebra (NWALA 2020), Dibrugarh Hanumanbax Surajmall Kanoi College, India, July 23-24, 2020.

  (4) Sixth India−Taiwan Conference on Discrete Mathematics (6th ITCDM -2019), Indian Institute of Technology (BHU) Varanasi, India, November, 15-18, 2019.

ACADEMICAL ACHIEVEMENTS

- (1) Qualified JAM-2015
  (2) Qualified GATE-2018
  (3) Qualified CSIR JRF & LS-2018
  (4) Qualified SSB lectureship-2019
  (5) Qualified SSB lectureship-2021
  (6) Qualified "National level online Quiz on Discrete Mathematics" conducted by CMRIT, Bengaluru, 2021

MEMBERSHIP OF PROFESSIONAL SOCIETIES

- Life Member of Odisha Mathematical Society

SKILLS

- C, C++, MATLAB, LaTeX, MS Office

LANGUAGES

- English
- Hindi
- Odia

REFERENCE

- **Dr. Sasmita Barik - IIT Bhubaneswar**
  Associate Professor in Mathematics
  sasmita@iitbbs.ac.in

- **Dr. Anasuya Nath - Utkal University**
  Assistant Professor in Mathematics
  anasuya_nath@yahoo.com

DECLARATION

- I here by declare that the information furnished above is true to the best of my knowledge & belief.

SUBHASISH BEHERA