

Samir Kar

PERSONAL DETAILS

Name: Samir Kar
Gender: Male
Date of Birth: 12/09/1991
Marital Status: Single
Nationality: India
Languages: Bengali, English and Hindi.

CONTACT INFORMATION

Vill.+ P.O.-Dhadanga
Dist.-Bankura, State-West Bengal
India, Pin 722140
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ACADEMIC APPOINTMENT

Assist. Prof., Dept. of Mathematics., Central University of Karnataka, Kalaburagi,
November 2024- Present

Visiting Faculty, Department of Mathematics, Indian Institute of Technology, Jammu,
March, 2020-June, 2021.

RESEARCH EXPERIENCE

Indian Institute of Science, Bangalore
Research Associate
July, 2024- September 2024

Indian Statistical Institute, Bangalore
NBHM Post-Doc Fellow
July, 2021-June 2024

Indian Institute of Technology, Madras
Institute Pre-Postdoc.
July, 2019-January, 2020

Senior Research Fellow
March, 2017-June, 2019

Junior Research Fellow
January, 2015- March, 2017

RESEARCH INTEREST

Functional Analysis, Fixed Point Theory, Operator Algebra and Quantum Information Theory.

EDUCATION

Indian Institute of Technology Madras, Chennai
Ph.D. in Mathematics
Jan.2015- Nov.2019

Indian Institute of Technology Guwahati, Assam
M.Sc., **Mathematics and computing**
CGPA : 7.8/10
Jul.2012- May.2014

Bankura Sammilani College, Bankura
 B.Sc. with **Mathematics (Honours)**
 Percentage : 62.87%

Jul.2009- Jun.2012

Garh-Raipur High School (H.S.), Raipur, Bankura
 Higher Scndary Examination (H.S.)

Jul.2007- May.2009

Puranpani High School, Puranpani, Bankura
 Secondary Examination

Jul.2002- May.2007

THESIS DETAILS

Title: A Study on Fixed Point Theory and Geometry of Banach Spaces
Supervisor: Prof. P. Veeramani
Co-supervisor: Prof. M. T. Nair
Date of submission: 04/07/2019
Date of award: 29/11/2019

HONOURS AND ACHIEVEMENTS

- Awarded National Board for Higher Mathematics Post-doctoral Fellowship in 2020.
- Qualified CSIR-UGC Examination for award of JRF and secured rank 033/211 under UGC fellowship scheme.
- Secured an All India Rank 195 in GATE Examination 2014 in Mathematics.
- Secured an All India Rank of 187 in the Joint Admission Test for M.Sc.(JAM) conducted by the IITs (2012)

PUBLICATIONS

1. *On k -uniformly rotund spaces and spaces with property k -UC*, J. Nonlinear Convex Anal., 19 (2018), No. 7, pp. 1263-1273. (Joint work with Prof. P. Veeramani).
2. *Fixed point theorem for generalized nonexpansive mapping*, Numer. Funct. Anal. Optim. 40 (2019), no. 8, pp. 888–901. (Joint work with Prof. P. Veeramani).
3. *Best proximity version of Krasnoselskii's fixed point theorem*, Acta Sci. Math. (Szeged) 86 (2020), 265–271. (Joint work with Prof. P. Veeramani).
4. *On k -strong convexity in Banach spaces*, J. Convex Anal. 28(2021), no. 4, pp. 1193-1210. (Joint work with Dr. M. Veena Sangeetha and Dr. M. Radhakrishnan).
5. *Peripheral Poisson boundary*, accepted in 'Israel Journal of Mathematics' (Joint work with Prof. B. V. Rajarama Bhat and Dr. Bharat Talwar).
6. *Peripherally automorphic unital completely positive maps*, 'Linear Algebra and its Application', 678(2023), 191-205. (Joint work with Prof. B. V. Rajarama Bhat and Dr. Bharat Talwar).

CONFERENCES

1. Presented a talk "Peripheral Poisson boundary", *Perspective of Quantum Probability*, 05 May 2023, ISI Bangalore, Bangalore.
2. Presented a talk "On k -uniformly rotund spaces spaces with property k -UC", *National Seminar on Recent trends in Mathematical Science*, 06-07 February, 2019, Burdwan University, West Bengal, India.

3. Presented a talk “ k -uniform rotundity and property k -UC”, *85th Annual Conference of Indian Mathematical Society*, November 22-25, 2019, IIT Kharagpur, India.

CONFERENCES
ATTENDED

- **Geometric Function Theory**
Indian Statistical Institute, Chennai- Feb 9, 2015.
Attended one day symposium.
- **IMS**
Kalayni University, 27th December to 30th December, 2016
Attended Indian Mathematical Society Conference.

TEACHING

- I taught Linear Algebra (PG course) for M.Tech in IIT Jammu (Aug-Dec 2020).
- I taught Linear algebra and differential equations (UG course) for B.Tech (Backlog) in IIT Jammu (Jan-May 2021).

TEACHING
ASSISTANCE

I have been a teaching assistant for the following courses:

- Series and Matrices for B.Tech in IIT Madras (Jan-May 2016, Jan-May 2017, Jan-May 2018).
- Functional Analysis for M.Sc in IIT Madras (Jul-Nov 2016, Jul-Nov 2017).
- Linear Algebra I for B.Math in ISI Bangalore (Sep-Dec 2021).
- Linear Algebra II for B.Math in ISI Bangalore (Jan-May 2023).