

Duranta Chutia

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PERSONAL DETAILS

- **Permanent Address:** C/O Mrs. Punya Prova Chutia, Vill-Baliyani, Ghilamara, Dist-Lakhimpur, Assam-787053.
- **Date of Birth:** October 17, 1994.
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EDUCATION

Ph.D. in Mathematical Sciences

Thesis: Weighted Estimates for Certain Maximal Functions and Integral Operators

Thesis Supervisor: Prof. Rajib Haloi

Tezpur University, Tezpur, Assam.

2022

Integrated M.Sc. in Mathematics

Tezpur University, Tezpur, Assam.

2017

Higher Secondary (AHSEC, Science)

North Lakhimpur College, North Lakhimpur, Assam.

2012

Matriculation (SEBA)

Ghilamara Public High School, Ghilamara, Lakhimpur, Assam.

2010

AWARDS/ACHIEVEMENTS

1. Gold Medal in Master's Degree Examination from Tezpur University, 2017.
2. State Eligibility Test for Lecturership, 2017.
3. Joint CSIR-UGC NET for Assistant Professor, 2016.

RESEARCH INTERESTS

- Harmonic Analysis.
- Differential Equations.

TEACHING EXPERIENCE

- Teaching Assistant for the course *Advanced Analysis* (MI 402) during Autumn Semester, 2019 & 2020 in the Department of Mathematical Sciences, Tezpur University.

PUBLICATIONS

1. **Chutia, D.** and Haloi, R. Weighted integral inequalities for modified integral Hardy operators, *Bulletin of the Korean Mathematical Society*, 59(3): 757–780, 2022.
2. Haloi, R. and **Chutia, D.** On the existence of mild solutions for a class of nonlocal quasi-linear differential equations with iterated deviating arguments, *The Journal of Analysis*, 2022.
3. Barman, T., **Chutia, D.** and Haloi, R. Almost periodic solution to a non-instantaneous impulsive differential equation with deviating arguments, *Electronic Journal of Mathematical Analysis and Applications*, 10(2): 289–304, 2022.
4. **Chutia, D.** and Haloi, R. Weighted inequalities for one-sided fractional minimal function. *The Journal of Analysis*, 29(4): 1151–1163, 2021.
5. **Chutia, D.** and Pal, S. A note on one-sided dyadic fractional maximal function on R^n . *Mathematics in Engineering, Science and Aerospace*, 12(2): 395–402, 2021.
6. Devi, D., **Chutia, D.** and Haloi, R. Rothe’s method for solving semi-linear differential equation with a deviating argument, *Electronic Journal of Differential Equations*, 2020(120): 1–10, 2022.
7. **Chutia, D.** and Haloi, R. Approximate controllability of quasilinear functional differential equations, *Electronic Journal of Differential Equations*, 2019(63): 1–14, 2019.

CONFERENCE PROCEEDINGS/BOOK CHAPTERS

1. **Chutia, D.** and Haloi, R. Weighted norm inequality for general one-sided vector valued maximal function. In *International Conference on Mathematics and Computing*, Vol. 1262, pp. 549-563, 2020, Springer, Singapore.

CONFERENCE PRESENTATIONS

1. 17th Discussion Meeting in Harmonic Analysis, NISER Bhubaneswar, January 05-08, 2022.
2. 6th International Conference on Mathematics and Computing, Sikkim University, September 23-25, 2020.
3. 13th International Conference MSAST 2019, IMBIC, Kolkata, December 21-23, 2019.
4. International Conference on Mathematical Analysis and Its Applications, South Asian University, New Delhi, December 14-16, 2019.
5. 4th International Conference on Mathematics and Computing IIT BHU, Varanasi, January 09-11, 2018.

WORKSHOPS/REFRESHER COURSES ATTENDED

1. Instructional Schools for Teachers on *Partial Differential Equations*, Tezpur University, November 21 to December 03, 2022.
2. National Centre for Mathematics Workshop (NCMW) on *Harmonic Analysis*, Online mode, IISER Mohali, December 07-12, 2020.
3. NCMW on *Harmonic Analysis*, IISER Bhopal, December 10-14, 2019.
4. National Workshop on *Topology and Functional Analysis*, The LNM Institute of Information Technology, Jaipur, March 11-15, 2019.
5. Science Academies’ Refresher Course on *Analysis*, Tezpur University, February 18 to March 02, 2019.
6. NCMW on *New Directions in PDE Constrained Optimisation*, IIT Bombay, March 12-16, 2018.

7. North East Summer Workshop in *Analysis and Probability*, Manipur University (funded by ISI) , Imphal, July 06-10, 2017.