

## Curriculum Vitae



### Atanu Manna

Assistant Professor of Mathematics

Indian Institute of Carpet Technology Bhadohi

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### Personal Information

**Name:** Atanu Manna

**Date and Place of Birth:** Fifteenth July of 1986 in Medinipur (W), West Bengal, India.

**Gender:** Male

**Nationality:** Indian

**Current Status:**

**Affiliation:** Indian Institute of Carpet Technology Bhadohi

**Institute type:** Autonomous and Technical institute under the Office of the Development Commissioner (Handicrafts), Ministry of Textiles, Govt. of India.

**Designation:** Assistant Professor

**Address:** Chauri Road, Sant Ravidas Nagar, Uttar Pradesh-221401, India

**Date of joining:** 30<sup>th</sup> June, 2014

**Duties and Responsibilities:** Teaching, research and other academic activities.

### Academic Credentials

**Details of Educational Qualifications:**

**Doctorate:** Indian Institute of Technology, Kharagpur

**Date of Enrollment:** 22<sup>nd</sup> July, 2009

**Date of Registration Seminar:** 25<sup>th</sup> April, 2011

**Date of Defense Viva:** 7<sup>th</sup> July, 2014

**Date of Award:** 26<sup>th</sup> July, 2014

**Thesis Title:** *On Modular Difference Sequence Spaces Derived by Using de la Vallee Poussin Means, Generalized Means and Difference Operator*

**Advisor:** Professor Parmeshwary Dayal Srivastava

**Master of Science:** M.Sc. in Mathematics with specializations in Advanced Functional Analysis, differential Topology and Differential Geometry from **Jadavpur University, Kolkata, India** in the year 2008. Secured first class fifth position of the university.

**Bachelor of Science:** B.Sc. Honours in Mathematics from **Vidyasagar University, Medinipur (W), India** in the year 2006. Secured first class first position of the university.

### Research Interest

Geometry of Banach spaces such as Orlicz, Musielak-Orlicz, Cesaro, Generalized Cesaro and Cesaro-Orlicz sequence spaces etc.. Geometric constants. Sequence, Series & Summability. Modular spaces, Factorization of classical inequalities. Operator and norm inequalities.

### Publications

#### **Research articles:**

17. **S. Mahto, A. Manna, P. D. Srivastava**, *Bigeometric Cesaro difference sequence spaces and Hermite interpolation*, **Asian-Eur. J. Math.** DOI: 10.1142/S1793557120500849, **2019**.
16. **A. Manna**, *Norm inequalities involving upper bounds of certain matrix operators in Orlicz-type sequence spaces*, **J. Anal.**, (Online first), DOI: 10.1007/s41478-018-0126-1, **2018**.
15. **A. Manna**, *Factorized enhancement of Copson's inequality*, **Tamkang J. Math**, **49(3) (2018), 195-203**.
14. **A. Manna**, *Certain geometric structures of  $\Lambda$ -sequence spaces*, **Adv. Oper. Theory**, **3(2) (2018), 433-450**.
13. **A. Manna and P. D. Srivastava**, *Property  $(k-\beta)$  of Musielak-Orlicz and Musielak-Orlicz-Cesaro spaces*, **RACSAM**, **113(2)**, 471-486, **2019**.
12. **P. D. Srivastava and A. Manna**, *On modular difference sequence spaces*, **Thai J. Math.** **16(3) (2018), 757-774**.
11. **A. Manna**, *Norm inequalities involving upper bounds for operators in Orlicz-Taylor sequence spaces*, **Chapter 26, Mathematics and Computing, Springer Proceedings of Mathematics and Statistics, ICMC 2018, IIT (BHU), India**.

10. **A. Maji, A. Manna and P. D. Srivastava**, *Some B-Difference Sequence Spaces Derived by Using Generalized Means and Compact Operators*, **Kragujevac J. Math.** **41** (1) (2017), 7-32.
9. **A. Manna and P. D. Srivastava**, *Some geometric properties of generalized Cesàro-Musielak-Orlicz spaces equipped with the Amemiya norm*, **Acta Math. Vietnam.** **41** (1) (2016), 91-102.
8. **A. Manna and P. D. Srivastava**, *Some geometric properties of Musielak-Orlicz sequence spaces generated by De La Vallee–Poussin means*, **Math. Inequal. Appl.** **18** (2) (2015), 687-705.
7. **A. Manna, A. Maji and P. D. Srivastava**, *Some paranormed difference sequence spaces derived by using generalized means*, **Kyungpook Math. J.** **55** (4) (2015), 909-931.
6. **A. Manna, A. Maji and P. D. Srivastava**, *Difference sequence spaces derived by using generalized means*, **J. Egypt. Math. Soc.** **23** (2015), 127-133.
5. **A. Maji, A. Manna, and P. D. Srivastava** *Some mth-order difference sequence spaces of generalized means and compact operators*, **Annal. Funct. Anal.** **6** (1) (2015), 170-192.
4. **A. Manna and P. D. Srivastava**, *On (k-NUC)-property in Musielak-Orlicz Spaces defined by de la Vallée-Poussin Mean and Some Countably Modularized Spaces*, **Dyn. Contin. Discrete. Impuls. Syst., Ser. A Math. Anal.** **21** (2) (2014), 187-200.
3. **A. Manna and P. D. Srivastava**, *Some geometric properties of generalized Cesàro-Musielak-Orlicz sequence spaces*, **Mathematics and Computing 2013: International conference in Haldia, Chapter 19** (2014), 283-296.
2. **A. Manna and P. D. Srivastava**, *Sequence spaces generated by sequential modulus of second order*, **Internat. J. Pur. Appl. Math.** **83** (5) (2013), 651-660.
1. **P. D. Srivastava and A. Manna**, *Some difference sequence spaces generated by de la Vallée- Poussin means*, **Asian-Eur. J. Math.** **6** (2) (2013), 18 pages.

### Teaching Experience

1. Under Graduate level course in Mathematics, which includes '*Functions of Complex Variables*', '*Statistical Techniques*', '*Fourier Transforms with Applications to solve classical PDE and Z-transforms*' and '*Numerical Techniques I & II*' for second year students, Indian Institute of Carpet

Technology Bhadohi, U.P., India: Fall 2014, Fall 2015, Fall 2016, Fall 2017 and Fall 2018 (Min. 44 weeks with at least 4 hrs per week).

2. Under Graduate level course in Mathematics, which includes '*Matrices*', '*Differential Calculus I & II*', '*Linear Algebra*', '*Multivariate Calculus-I*' and '*Vector Calculus*' for first year students, Indian Institute of Carpet Technology Bhadohi, U.P., India: Fall 2014, Fall 2015, Fall 2016, Fall 2017 and Fall 2018 (Min. 44 weeks with at least 4 hrs per week).
3. Under Graduate level course in Mathematics, which includes '*Multivariate Calculus-II*', '*Sequence and Series*', '*Differential Equations*', '*Series Solutions and Special Functions*', '*Laplace Transform*', '*Fourier Series*' and '*Partial Differential Equations and their Applications*' for first year students, Indian Institute of Carpet Technology Bhadohi, U.P., India: Spring 2015, Spring 2016, Spring 2017, Spring 2018 and Spring 2019 (Min. 40 weeks with at least 4 hrs per week).

#### Administrative Activities

1. **Member:** Under Graduate admission committee for the academic year 2014-15, 2015-16, 2016-17 and 2017-18, 2018-19 at IICT Bhadohi.
2. **Joint Registrar-in-Charge of IICT:** September, 2017 to till date.

#### Professional Activities

1. **Reviewer:** '*Mathematical Reviews*' (*MathSciNet*) a journal and online database published by '**American Mathematical Society**' from 9<sup>th</sup> September, 2014 to present.  
**No. of articles reviewed: 16**
2. **Reviewer:** '*Zentralblatt MATH*' a journal and online database published by '**European Mathematical Society**' from 2017.  
**No. of articles reviewed: 05**
3. **Reviewer:** Taylor & Francis journal '*Cogent Mathematics*', **Songklanakar Journal of Science & Technology**, IEEE conference **ICCCM-2016**, Allahabad, **ICMC 2018**, **IIT (BHU)** etc.

#### Individual Subscriptions to Journals

**Bull. Amer. Math. Soc.** (All issues with hard copy), and **Notices of A. M. S.** (Online) since 2017.

## Membership/Editorial Activities

**Member: American Mathematical Society** since 2017.

**Member: Editorial Board** of '**International Journal of Universal Mathematics & Mathematical Sciences**' from 1<sup>st</sup> November, 2015 to 31<sup>st</sup> October, 2020.

## Workshops Attended at ISI

1. '**Advanced Instructional School on Functional Analysis**' organized by IMSC Chennai and ISI Delhi:  
Venue: Indian Statistical Institute Delhi; December (6-22), 2010.
2. '**Advanced Instructional School on Functional Analysis**': Venue: Indian Statistical Institute Kolkata;  
July (4-23), 2011.

## Work Presented

1. **Presented:** '*Norm inequalities involving upper bounds of matrix operator in Orlicz-Taylor sequence spaces*' at '*4<sup>th</sup> International Conference of Mathematics and Computing*' organized by Department of Mathematics, IIT(BHU), Varanasi, India, January 9-11, 2018.
2. **Presented:** '*A study on the James constant of Orlicz sequence spaces defined by de la Vallee-Poussin means*' at '*International Conference on Non-linear Dynamics, Analysis and Optimization*' organized by Department of Mathematics, Jadavpur University, Kolkata, December 9-11, 2015.
3. **Presented:** '*Some geometric properties of generalized Cesàro -Musielak-Orlicz sequence spaces*' at '*International Conference on Mathematics and Computing*', December 26-29, 2013, Haldia Institute of Technology, India.
4. **Presented:** '*On vector valued sequence spaces generated by second order sequential modulus*' at '*National Conference on Recent Trends in Mathematical Sciences and Its Applications-2012*', MITS, Jaipur, Rajasthan.
5. **Presented:** '*On modular spaces of certain type  $(V, \lambda)$  strongly summable sequences*' in '*Research Scholar Day-2011*' at Department of Mathematics, IIT Kharagpur on December, 2011.
6. **Presented:** '*Size of the modular difference sequence spaces in terms of Porosity*' in '*National Meet of Research Scholars in Mathematical Sciences (NMRSMS-2011)*', Department of Mathematics, IIT Kharagpur, October(12-15), 2011.

## UG Project Guided

**2017-18:** *Latex and pile height play major role in tuft withdrawal force of carpet: A statistical study.*

## Faculty Development Programme

**Attended:** Twelve days (December 1-12, 2014) programme on '*Entrepreneurship Development*' organized by FMS, Banaras Hindu University, Varanasi, India.

**Attended:** Eight days (July 8-15, 2016) FDP on '**Human Values and Professional Ethics**' organized by Dr. A. P. J. Abdul Kalam Technical University, Lucknow at IIT Kanpur campus.

## Awards & Honors

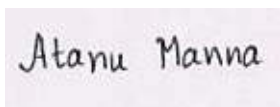
1. **Received:** '**University Gold Centered Silver Medal**' from *Vidyasagar University* for securing '**first**' position in B.Sc. (H) Mathematics in the year 2006 with 66.38% marks.
2. **Received:** '**Gold Medal with a certificate of merit**' from *Vidyasagar Vidyapith (Infant Section)* for securing first position in B.Sc. (H) Mathematics at *Vidyasagar University* in the year 2006.
3. **Awarded:** National Merit Scholarship, Government of India in 2006.
4. **Secured:** '**Fifth**' position in M.Sc. Mathematics (Batch 2008) from *Jadavpur University, Kolkata* with 81.1% marks.
5. **Qualified:** CSIR(NET) and GATE examinations in 2008 and 2009 respectively.
6. **Received:** Second best paper presentation award from Department of Mathematics, IIT Kharagpur on the occasion of '*Research Scholar Day 2013*'.

## Visiting Scientist

**Offered:** '**Visiting Scientist**' position for one year from **Indian Statistical Institute, North-East Centre, Tezpur, Assam, India** in 2016.

## Computer Skills

**Language:** LaTeX, Mathematica, TexStudio, MATLAB



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