

Gopal Datt

Assistant Professor

Department of Mathematics

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Personal Information

Date of Birth : June 5, 1988
Sex : Male
Nationality : Indian
Category : General
Marital Status : Married

Education

- 2011 – 2017 **Ph.D. Mathematics** University of Delhi
Thesis title: Normal Families in One and Several Complex Variables: Looking through Zalcman's Lemma
Thesis submission date: September 19, 2016
Thesis defence date: May 19, 2017
Supervisor: Dr. Sanjay Kumar
- 2007 – 2009 **M.Sc. Mathematics** University of Delhi
- 2004 – 2007 **B.Sc. (Hons) Mathematics** University of Delhi
- 2002 – 2004 **Higher Secondary** Uttaranchal Board
- 2000 – 2002 **High School** Uttaranchal Board

Scholarships

- NBHM postdoctoral fellowship Not availed
- UGC–Dr. D.S. Kothari Postdoctoral fellowship IISc, Bangalore 05.11.2019 – 15.01.2021
- Postdoctoral fellowship (under the Swarnjanti fellowship of Prof. G. Bharali) IISc, Bangalore 04.10.2019 – 04.11.2019
- SERB–NPDF IISc, Bangalore 04.10.2017 – 03.10.2019
- Institute Post-doctoral Fellowship HRI, Allahabad 28.02.2017 – 29.09.2017
- SRF, UGC University of Delhi 29.09.2013 – 19.09.2016
- JRF, UGC University of Delhi 29.09.2011 – 28.09.2013

Research interests

Analysis in one and several complex variables.

Research papers

Preprints

1. G. Datt, *Improvements to the Montel–Carathéodory Theorem for families of \mathbb{P}^n -valued holomorphic curves*, arXiv:2012.06758.
2. G. Datt, *On Lappan's five-valued theorem for φ -normal functions in several variables*, (submitted).

3. G. Datt, *Meromorphically normal families and a meromorphic Montel–Carathéodory theorem*, arXiv:1812.05811.

Published

1. G. Datt and S. Kumar, *A criterion for quasiregularity in \mathbb{C}^n* , Proc. Indian Acad. Sci. (Math. Sci.), (2019) 129: 11.
2. G. Datt, Y. T. Li and P. Rani, *Normality criteria for a family of meromorphic functions with multiple zeros*, Commun. Korean Math. Soc., 33 (2018), no. 3, 833–51.
3. G. Datt and S. Kumar, *A normality criterion for a family of meromorphic functions*, Monatsh. Math. 180(2) (2016), 193–204.
4. G. Datt and S. Kumar, *Normality and Montel’s theorem*, Arch. Math. (Basel), 107(5) (2016), 511–521.
5. G. Datt and S. Kumar, *Some normality criteria*, Turkish J. Math. 40(6) (2016), 1258–1273.
6. G. Datt and S. Kumar, *Normality and sharing functions*, Indian J. Pure Appl. Math. 46 (6) (2015), 853–864.
7. D. Kumar, G. Datt and S. Kumar, *Dynamics of composite entire functions*, J. Indian Math. Soc. (N. S.) 82 (3-4) (2015), 107–114.

Teaching experience

- Tutor for the course Analysis and Linear Algebra-I (UM101), IISc, Bengaluru, Autumn 2020.
- Tutor for the course Complex Analysis (MA224), IISc, Bengaluru, Spring 2020.
- Conducted tutorial — jointly with Ratna Pal — in Instructional Schools for Teachers on Complex Analysis, Bhaskaracharya Pratishthana, Pune, May 13–18, 2019.
- Conducted a course — jointly with Vikramjeet Singh Chandel and Mayuresh Londhe — on *Ohsawa–Takegoshi Extension Theorem*, Research Interaction in Several Complex Variables, TIFR CAM, Bangalore, December 17–21, 2018.
- Course instructor for the Calculus course, Undergraduate Mathematics Workshop (UMW) for undergraduate Students, Govt. degree college, Uttarkashi October, 15–20, 2018.
- Conducted tutorial — jointly with Ratna Pal — in Advanced Instructional Schools on Several Complex Variables, IISc, Bangalore, June 14–16, 2018.
- Course instructor for Real and Complex Analysis, Undergraduate Summer Workshop (USW) for undergraduate Students, Kumaun University, SSJ campus Almora, July, 19–July 02, 2017.
- Course instructor for Complex Analysis, Summer Programme in Mathematics – 2017, Harish-Chandra Research Institute, Allahabad, June 12–July 01, 2017.

- Conducted tutorials for the course Topology (Sem. I) in Department of Mathematics, University of Delhi, 2015.
- Conducted tutorials for the course Measure Theory in AFS-I held in CEMS, Department of Mathematics, Kumaun University, SSJ campus Almora, December, 2014.
- Conducted tutorials for the course Topology in ATM School held in CEMS, Department of Mathematics, Kumaun University, SSJ campus Almora, September 30–October 12, 2013.

Talks/Paper presentations

- **2019**

- Delivered a symposium lecture in the 34th annual conference of the Ramanujan Mathematical Society, which was held at the University of Pondicherry from August 1 - 3, 2019.
Title of the lecture: Sequential compactness in the space of meromorphic mappings on complex manifolds.
- Delivered a talk titled *Meromorphically normal families and a meromorphic Montel–Carathéodory theorem*, In-house Symposium of Mathematics, Department of Mathematics, IISc Bangalore, March 28–29, 2019.
- Delivered a talk titled *Meromorphically normal families and a meromorphic Montel–Carathéodory theorem*, Mini-Symposium in Mathematics, Deen Dayal Upadhyaya College, Delhi University, February 22–23, 2019.

- **2018**

- Delivered a series of talks — jointly with Vikramjeet Singh Chandel and Mayuresh Londhe — on *Ohsawa-Takegoshi Extension Theorem*, Research Interaction in Several Complex Variables, TIFR CAM, Bangalore, December 17–21, 2018.

- **2017**

- Delivered a talk titled *Normal families in one and several complex variables*, Harish-Chandra Research Institute, Allahabad, April 2017.

- **2016**

- Delivered a short talk titled *Normality in several complex variables*, Complex Analysis: Geometric and Dynamical Aspects, CEMS, Department of Mathematics, Kumaun University, SSJ campus Almora, November 14–19, 2016.
- Delivered a 30 min talk titled *Quasinormality in several complex variables*, HAYAMA Symposium on Complex Analysis in Several Variables XVIII, Graduate School of Mathematical Sciences, University of Tokyo, Japan, July 16–19, 2016.

- **2015**

- Presented a paper titled *Some normality criteria*, 81st Annual Conference of the Indian Mathematical Society (IMS),VNIT, Nagpur December 27–30, 2015.

- **2014**

- Presented a paper titled *Normality criteria for a family of meromorphic functions with multiple zeros and poles*, International Conference on Advances in Dynamical System (ICADS–2014) Central University of Rajasthan, March 10–13, 2014.

- **2013**

- Presented a paper titled *Normal families and sharing functions and values*, National Seminar for Research Scholars, Department of Mathematics, University of Delhi, September 21, 2013.

- **2012**

- Delivered a talk titled *Transcendental dynamics, sharing values and normality*, ICTS Program: Groups, Geometry and Dynamics, CEMS, Department of Mathematics, Kumaun University, SSJ campus Almora, December 03–16, 2012.

Poster presentation

- Presented a poster titled *Quasinormality in \mathbb{C}^n* , Komplex Analysis Winter School and Workshop (KAWA – 7), Institut de Mathématiques de Toulouse, Toulouse, France, March 07–12, 2016.

Conferences/ Workshops/ Lecture series attended

- **2019**

- Cauchy–Riemann equations in higher dimension, ICTS, Bangalore, July, 15 to August, 02, 2019.
- In–house Symposium of Mathematics, Department of Mathematics, IISc, Bangalore, March 28–29, 2019.
- Mini–Symposium in Mathematics, Deen Dayal Upadhyaya College, Delhi University, February, 22–23, 2019.

- **2018**

- Research Interaction in Several Complex Variables, TIFR CAM, Bangalore, December 17–21, 2018.
- Advanced Instructional Schools, Several Complex Variables, IISc, Bangalore, June 11–23, 2018.

- **2016**

- A Mini Course in Several Complex Variables, Indian Statistical Institute, Chennai, December 08–13, 2016.

- Complex Analysis: Geometric and Dynamical Aspects, CEMS, Department of Mathematics, Kumaun University, SSJ campus Almora, November 14–19, 2016.
 - Geometry and Analysis on CR manifolds, Harish-Chandra Research Institute, Allahabad, October 10–17, 2016.
 - HAYAMA Symposium on Complex Analysis in Several Variables XVIII, Graduate School of Mathematical Sciences, University of Tokyo, Japan, July 16–19, 2016.
 - Komplex Analysis Winter School and Workshop (KAWA – 7), Institut de Mathématiques de Toulouse, Toulouse, France, March 07–12, 2016.
- **2015**
 - 81st Annual Conference of the Indian Mathematical Society (IMS), VNIT, Nagpur December 27–30, 2015.
- **2014**
 - International Conference on Advances in Dynamical System (ICADS–2014), Central University of Rajasthan, March 10–13, 2014.
 - Annual Foundation School-II, CEMS, Department of Mathematics, Kumaun University, SSJ campus Almora, May 1–28, 2014.
 - Annual Foundation School-I, CEMS, Department of Mathematics, Kumaun University, SSJ campus Almora, December, 1–27, 2014.
- **2013**
 - Advanced Training in Mathematics: School on Complex Analysis & Related Topics, Department of Mathematics, Central University of Rajasthan, March 15–19, 2013.
 - Annual Foundation School-III, Department of Mathematics, University of Pune, June 03–29, 2013.
 - National Seminar for Research Scholars, Department of Mathematics, University of Delhi, September 21, 2013.
- **2012**
 - National Seminar for Research Scholars, Department of Mathematics, University of Delhi, March 24–25, 2012.
 - Advanced Instructional School, Geometric Methods in Complex Analysis, Indian Institute of Science, Bangalore, April 02–21, 2012.
 - Instructional School for Lecturers in Differential Geometry, CEMS, Department of Mathematics, Kumaun University, SSJ campus Almora, May 21–June 09, 2012.
 - Almora Mathematical Surveys (a national mathematical year event), CEMS, Department of Mathematics, Kumaun University, SSJ campus Almora, October 03–6, 2012.

– ICTS Program: Groups, Geometry and Dynamics, CEMS, Department of Mathematics,
Kumaun University, SSJ campus Almora, December 03–16, 2012.

References

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Indian Institute of Science, Bangalore
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DDU College, University of Delhi, Delhi
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