

Sarita Agrawal

Curriculum Vitae

Current Position

02/07/2022— **Assistant Professor**, *ITER*, *SOA DEEMED TO BE UNIVERSITY*, Bhubaneswar, Odisha.

Professional Experiences

01/11/2018— **NBHM Post-Doctoral Fellow**, *Institute of Mathematics and Applications* 31/10/2020 (*IMA*), Bhubaneswar, Odisha.

01/08/2017 — **Post-Doctoral Fellow in Mathematics**, *Institute of Mathematical Sciences* 26/10/2018 (*IMSc*), Chennai.

Education

2011–2016 **Doctor of Philosophy**, *Discipline of Mathematics*, Indian Institute of Technology Indore, Indore.

2008–2009 **Master of Philosophy**, *Berhampur University*, Berhampur, Odisha. Mathematics

2004–2006 **Masters of Science**, *Utkal University*, Bhubaneswar, Odisha. Specialized in Mathematics

2001–2004 **Bachelor of Science**, *Govt. College*, Bhawanipatna, Odisha. Mathematics Honours

Awards

2009 CSIR-UGC NET (LS)

2010 CSIR-UGC NET (JRF under UGC scheme)

2017 NBHM Postdoc Fellowship

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Languages

Odia **Mothertongue**English **Intermediate**Hindi

Conversationally fluent Conversationally fluent

Invited Talks

2018 National Conference on Geometric Function Theory and its Applications & Felicitation Programme in Honor of Dr. S. Latha, *January* 29-30, 2018, Yuvaraja's College, University of Mysore, Mysuru.

Conferences and Workshops

- 2013 International Conference on Special Functions & Applications (ICSFA 2013), December 13-15, 2013, Malviya National Institute of Technology, Jaipur.
- 2013 International Symposium on Complex Analysis and Conformal Geometry (ISCACG 2013), December 28-30, 2013, Indian Institute of Technology Indore, Indore.
- 2014 International Conference on Geometric Function Theory and Applications (ICGFTA 2014), December 18-21, 2014, Indian Institute of Technology Kharagpur, Kharagpur.
- 2015 IIT Indore-Russia-ISI Chennai Centre Joint Seminar on Complex Analysis (a one-day symposium to promote Indo-Russian collaboration), *December 4, 2015*, Indian Institute of Technology Indore, Indore.
- 2015 **An Introduction to Several Complex Variables**, *December 18-23, 2015*, Indian Statistical Institute, Chennai Centre, Chennai.
- 2017 Global Initiative of Academic Network (GIAN) course on "Quasi-conformal Mappings and their Applications" (Prof. Pekka Koskela), December 11-16, 2017, Indian Institute of Technology Indore, Indore.
- 2018 Workshop on Planar Harmonic Mappings and Quasi-Conformal Mappings, *March 19-23, 2018*, Department of Mathematics, Central University Rajasthan, Rajasthan.

Research

My current research interests are in Geometric Function Theory. More precisely, I am interested in univalent functions, special functions, univalent harmonic mappings, quasiconformal mappings and their applications in geometric function theory.

Publications

- [1] Agrawal S., Sahoo S. K. (2014), Geometric properties of basic hypergeometric functions, *J. Difference Equ. Appl.*, **20** (11), 1502–1522.
- [2] Agrawal S., Sahoo S. K. (2017), A generalization of starlike functions of order alpha, *Hokkaido Math. J.*, **46** (1), 15–27.
- [3] Agrawal S. (2017), Coefficient estimates for some classes of functions associated with q-function theory, Bull. Aust. Math. Soc., **95** (3), 446–456.
- [4] Agrawal S., Sahoo S. K. (2017), Radius of convexity of partial sums of odd functions in the close-to-convex family, *Filomat*, **31** (11), 3519–3529.
- [5] Agrawal S., Mohapatra M. R. (2018), Bohr radius for certain classes of analytic functions, *J. Class. Anal.*, **12** (2), 109–118.
- [6] Agrawal S., Sahoo S. K. (2018), On coefficient functionals associated with the Zalcman conjecture, *J. Class. Anal.*, **13** (2), 95–105.
- [7] Agrawal S., Arora V., Mohapatra M. R., Sahoo S. K. (2019), Area problem for univalent functions in the unit disk with quasiconformal extension to the plane, *Bull. Iranian Math. Soc.*, **45**(4), 1061–1069.
- [8] Agrawal S. (2021), On a generalization of starlike functions, *Indag. Math.*, **32** (4), 824–832.
- [9] Agrawal S., Sahoo S. K. (2021), Nehari's univalence criteria, pre-Schwarzian derivative and applications, *Indian J. Pure Appl. Math.*, **52** (1), 193–204.

Preprints

[1] Agrawal S., Generalized Zalcman's conjecture for a subclass of close-to-convex functions, *In Preparation*.

Peer Review Activities

- Journal of Mathematical Analysis and Applications (Elsevier).
- Analysis Mathematica (Springer).
- Mathematical Reviews (MathSciNet).
- The Ramanujan Journal (Springer).
- Complex Variables and Elliptic Equations (Springer).
- Journal of Inequalities and Applications.

References

- 1 **Dr. Swadesh Kumar Sahoo**, Associate Professor, Discipline of Mathematics, Indian Institute of Technology Indore, Indore 453 552, India. Email:swadesh@iiti.ac.in, Mobile: (+91) 89890 06181
- 2 Professor Saminathan Ponnusamy, Professor, Department of Mathematics, Indian Institute of Technology Madras, Chennai, India. Email:samy@iitm.ac.in
- 3 **Professor Karl-Joachim Wirths**, *Professor*, *Institute of Analysis and Algebra*, Technische Universität Braunschweig, Germany. Email:k-j.wirths@tu-bs.de, Phone: (++49 531) 391-7416