

Akash Meher, DST-INSPIRE Fellow, SRF



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| <i>Registration Number</i> | 89/2022/Mathematics |
| <i>Name of the Department & address</i> | Department of Mathematics, Sambalpur University, Jyoti Vihar, Burla, Sambalpur-768019, Odisha |
| <i>Name of the supervisor &Correspondence address</i> | Dr. P. Gochhayat Assistant Professor Department of Mathematics, Sambalpur University Jyoti-Vihar, Burla, Sambalpur-768019, Odisha |
| <i>Details of the funding agency/ scheme</i> | DST-INSPIRE Fellowship Application Ref. No: DST/INSPIRE/03/2019/000511 IVR No: 201900004948 |
| <i>Title of the research topic</i> | Geometric aspects of harmonic, poly-harmonic and log-harmonic univalent mappings |
| <i>Abstract of the research work</i> | Following the seminal work due to Clunie and Sheil-Small [Ann. Acad. Sci. Fenn. Ser. A I Math. 9, 3-25 (1984)], it is interesting to study various viewpoints of logharmonic and polyharmonic mappings. Presently we are looking on the size of the sum of the moduli of the power series of a bounded complex valued function in the context of planar harmonic mappings. |
| <i>Progress of the research work</i> | |
| <i>Journal publication (International)</i> | |

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| <p><i>Conference attended</i></p> | <ol style="list-style-type: none"> 1. Presented a paper entitled 'Bohr's estimates of certain unified family of close-to-convex harmonic mappings' in the International Conference on Analysis and Discrete Mathematics & 49th Annual Conference of Odisha Mathematical Society organised by Utkal University, Odisha, India (March 26-27, 2022). 2. Presented a paper entitled 'Improved Bohr's estimates of k-fold symmetric logharmonic mappings' in the 37th Annual Conference of Ramanujan Mathematical Society held at SSN College of Engineering, Tamil Nadu, India (December 6-8, 2022). 3. Presented a paper entitled 'Improved Bohr radius for a subfamily of univalent logharmonic mappings in the International Conference on Mathematical Analysis and Application organised by NIT Tiruchirappalli, Tamil Nadu, India (December 15-17, 2022). 4. Presented a paper entitled 'Bohr's estimates of certain univalent harmonic mappings in the International Conference on Mathematical Analysis and Application & 50th Annual Conference of Odisha Mathematical Society organised by Institute of Mathematics and Application, Odisha, India (January 21-22, 2023). |
| <p><i>Awards</i></p> | <ul style="list-style-type: none"> • DST-INSPIRE Fellowship, Govt. of India |