

FACULTY PROFILE TEMPLATE

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- ❖ **Please mention year of passing (Educational Qualifications)**
- ❖ **In case of Updating Existing Faculty profiles, please send the new additions in 'Highlighted Form/Text'.**

Basic Details:

- **Name:** Dr D Kavitha
- **Designation:** Assistant Professor (OG)
- **Phone Number:** 8610340667
- **Email ID:** kavithad5@srmist.edu.in
- **Area or Subject:** Geometric Function Theory
- **Affiliation:** Department of Mathematics, SRM Institute of Science and Technology, Ramapuram.

Educational Details:

- **Degree** – M. Sc., M.Phil., Ph. D.
- **Area or Subject** – Mathematics
- **University**

Ph. D. Mathematics – 2019, Anna University, Tamil nadu, Chennai.

M.Phil Mathematics – 2008, Alagappa University, Tamilnadu, Karaikudi.

M.Sc. Mathematics – 2006, Thiruvalluar University, Tamil nadu, Chennai.

B.Sc. Mathematics – 2004, Madras University, Tamil nadu, Madurai.

Other Details:

Courses:

- Engineering Mathematics
- Transforms and Partial Differential Equations
- Probability and Random Process
- Probability and Queuing theory
- Statistics and Numerical Methods
- Resource Management Techniques
- Numerical methods

Research Interests: Geometric Function Theory.

Publications:

- K. Dhanalakshmi, D. Kavitha, A. Anbukkarasi , **Certain subclasses of bi-univalent functions associated with Horadam polynomials**, *International Journal of Applied Mathematics Journal*, ISSN (Print): ISSN 1311-1728 Journal ISSN (Electronic): ISSN 1314-8060 Volume: 34 Issue:1, 2021 DOI: 10.12732/ijam.v34i1.3.
- **Kavitha D**, Dhanalakshmi K & Arulmozhi N, Fekete Szego Properties for the Class of Mocanu Functions Associated with q-Ruscheweyh Operator, *J. Math. Comput. Sci.* 11 (2021), No. 1, 603-613.
- **Kavitha D**, Dhanalakshmi K & Arulmozhi N, Coefficient Estimates for Some Subclasses of Analytic Functions Associated with Haradam Polynomial , *Advances in Mathematics : Scientific Journal.*, Vol. 9, No. 12, 10091-10102, 2020.
- **Kavitha D** & Dhanalakshmi K, Subclasses of Analytic Functions with Respect to Symmetric Conjugate Points Bounded by Conical Domain., *Advances in Mathematics : Scientific Journal.*, Vol. 9, No. 1, 397-404, 2020.
- **Kavitha D** & Dhanalakshmi K, Certain coefficient estimates for a new class of analytic functions involving q-derivative operator., *Journal of Xi'an University of Architecture and Technology.*, Vol. XII, No. IV, 2407-2411, 2020.
- Dhanalakshmi K & **Kavitha D**, Fekete-Szegö inequality for a subclass involving the generalized K - Mittag-Leffler functions., *Test Engineering and Management.*, Vol. 83, Pg No. 13795 – 13797, 2020.
- Dhanalakshmi, K & **Kavitha D**, Certain bounds for a subclasses of analytic functions of reciprocal order, *Journal of Xidian University.*, Vol. 14, No.4., 124-130, 2020.
- Ramachandran C & **Kavitha D**, Sigmoid function associated with quasi-subordination, *Journal of Computational Analysis and Applications*, Vol. 28, No. 4, 670-678, 2020.
- Ramachandran C., Kavitha D & Wasim UI-Haq, Fekete Szego problem for some subclasses of multivalent non-Bazilevic function using differential operator, *Journal of Computational Analysis and Applications.*, Vol. 26, No.2, 216–222, 2019.
- Ramachandran C., Kavitha D & Wasim UI-Haq, Fekete Szego theorem for a close-to-convex error function, *Mathematica Slovaca.*, 69, no. 2, 391-398, 2019.
- Ramachandran C & **Kavitha D.**, Toeplitz Determinant for Some Subclasses of Analytic Functions., *Global Journal of Pure and Applied Mathematics.*, 13(2), 785-793, 2017.

- Ramachandran C & **Kavitha D**, Fekete-Szegö problem for some subclasses of analytic functions associated with quasi-subordination, *Global Journal of Pure and Applied Mathematics*, Vol. 13, Number 1, 2017.
- Ramachandran C., **Kavitha D** & Om. P. Ahuja, Fekete Szego Inequalities for Certain Generalized Classes of Multivalent Functions Associated with Salagean Operator., *Journal of Computational and Theoretical Nanoscience.*, Vol. 14, 1–3, 2017.
- Ramachandran C & **Kavitha D**, Coefficient estimates for some subclass of bi-univalent functions defined by Salagean operator using quasi-subordination, *Applied Mathematical Sciences.*, Vol. 11, no. 35, 1725–1732, 2017.
- Ramachandran C & **Kavitha D**, Faber polynomial coefficient of bi-univalent functions with respect to symmetric q -derivative operator, *International Journal of Pure and Applied Mathematics.*, Vol. 116, no. 2, 391–401, 2017.
- Ramachandran C., **Kavitha D** & Soupramanien T, Certain bound for q -starlike and q -convex functions with respect to symmetric points., *International Journal of Mathematics and Mathematical Sciences*, 2015.
- Ramachandran C., **Kavitha D** & Annamalai S, Fekete-Szegö Coefficient for the Komatu Integral Operator in Unit Disk., *International Journal of Mathematical Analysis.*, 9(19), 935-945, 2015.

Papers Presented in international/national conferences:

- Fekete-Szegö Coefficient for the Komatu Integral Operator in Unit Disk., International conference on Pure and Applied Mathematics, 2015, University College of Engineering Villupuram.
- Toeplitz Determinant for Some Subclasses of Analytic Functions., International conference on Pure and Applied Mathematics, 2017, IIT-Roorkee.
- **Presented the Research paper in “National conference on annals of pure and applied mathematics” titled “Fekete-Szegö problem for some subclass of analytic functions with respect to q -derivative operator” on 14th and 15th July 2016 at MVJ college of engineering-Bangalore.**

Working Papers:

- Working on Error function in the open unit disk

Academic Experience: 14 years

Workshops /Short term training programme:

- Participated in the short term training programme on Numerical Methods and Their Applications (STTP-2016) organized by the Department of Mathematics, SRM Institute of Science and Technology, Kattankulathur on 4th and 5th of November 2016.
- Participated in the workshop on Fuzzy Set Theory and its Applications (WFTA-2017) conducted at SRM Institute of Science and Technology, Ramapuram during 9th of March, 2017.
- Participated in the short term training programme on Fuzzy Sets and Applications (STTP-2018) organized by the Department of Mathematics, SRM Institute of Science and Technology, Kattankulathur on 9th and 10th of November 2018.

National Conference

- Participated in One day Symposium on “Geometric function theory” on 09.02.15 at Indian Statistical Institute-Chennai.
- One day workshop on “Geometric function theory” on 24.04.15 at CEG Campus, Anna University, Chennai.
- One day workshop on “Research methodology” on 12.09.15 at CEG Campus, Anna University, Chennai.
- International workshop on “Preparation of research proposals” on 04.01.16 at UCEV-Villupuram.
- One day symposium on “Geometric Function theory and Special Functions” on 31st August, 2016 at Indian Statistical Institute-Chennai.
- Attended the National level Seminar on “Mathematical Modelling and Soft Computing” on 1.2.2018 at Theivanai Ammal College for Women - Villupuram.
- Attended the International Workshop cum Conference on “Analysis and Applications” from 18.06.2018 to 22.06.2018 at IIT-Madras.
- Attended the National Symposium on “Mathematical methods and Applications” on 22.12.2018 at IIT-Madras.
- Attended the one day workshop on “Geometric function theory and its applications” on 20.01.2018 at Madras Christian College, Chennai.
- Presented the Research paper titled “” in National Symposium on “Mathematical methods and Applications” on 22.12.2019 at IIT-Madras.
- Attended the one day “International Seminar on Research Trends in Applied Mathematics” on 07.01.2020 at VIT-Chennai.

Faculty Development Programme Attended:

- Attended “7 Days Faculty development training programme” from 20.05.15 to 26.05.15 at UCEV-Villupuram.
- Attended the QIP short term course on “Evolution Equations: Theory and Computation” from 12.08.2019 to 17.08.2019 at IIT-Madras.
- Attended the QIP short term course on “Mathematical Epidemiology” from 14.12.2019 to 19.12.2019 at IIT-Madras.

Achievements and Awards: Nil

- **Membership:** Indian Mathematical Society.
- Indian Society for Technical Education.

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