

POOJA M N



Career Objective

- To secure an entry-level academic position in a reputed institution/organization where I can utilize my teaching abilities, subject expertise, and research potential to support student learning and institutional development.
- Strong passion for education and social impact, with a commitment to adopting innovative teaching practices and conducting research aimed at improving classroom instruction and teaching-learning methodologies.

Personal Details

Address:

Arasalu, Hosanagara – 577 426,
Shivamogga, Karnataka, India.

Email:

poojamn2608@gmail.com

Phone:

+91 99647 67488

DOB:

August 26, 1998

Gender:

Female

Marital Status:

Married

Languages Known:

Kannada, English, Hindi, Marathi

Nationality:

Indian

Experience:

Fresher

Research Profiles

Scopus: <http://www.scopus.com/inward/authorDetails.url?authorID=59924211600&partnerID=MN8TOARS>

Web of Science: <https://researcherid.com/rid/KEH-7255-2024>

Google Scholar:

<https://scholar.google.com/citations?user=v4ZZGPMAAAAJ&hl=en>

Orcid ID: <https://orcid.org/0000-0001-8078-0040>

ResearchGate: https://www.researchgate.net/profile/Pooja-M-N-3?ev=hdr_xprf

Education

Qualification	Institution	University/Board	Year of Passing & Aggregate
Ph.D	Kuvempu University, (Main Campus)	Kuvempu University	2025 Thesis Submitted
M.Sc (Mathematics)	Kuvempu University, (Main Campus)	Kuvempu University	2021 85.5%
B.Sc (PMCs)	Government Science College, Bhadravathi	Kuvempu University	2019 88.08%
PUC	St. Charles Composite PU College, Bhadravathi	Karnataka Pre University Board	2016 89.5%
SSLC	Sri Kanaka High School, Bhadravathi	Karnataka Secondary Education Board	2014 86.24%

Ph.D Details

Title of the Thesis Theoretical Investigation of Boundary Layer Flow and Heat Transfer Over Certain Geometries

Research Supervisor Name Prof. S K Narasimhamurthy

Affiliation Department of P.G. Studies and Research in Mathematics, Kuvempu University, Jnanasahyadri, Shankaraghatta, Shivamogga – 577 451, Karnataka.

Areas of Interest

- Boundary Layer Theory
- Stretching Surfaces
- Nanofluids
- Heat Transfer Enhancement
- Analytical/ Numerical Methods
- Differential Equations

Computer Skills

- C Programming
- C++
- Python
- LaTeX
- Maple
- Matlab
- Mathematica
- Origin
- MS Office

Awards

- Received the **Second Prize for Best Paper Presentation** at the **International Conference on Advanced Mathematical Applications (ICAMA-2024)**, organized by the *Department of Mathematics, D.R.M. Science College, Davanagere*, held on November 22, 2024.

Citation Indices

- Citations: 46
- h-index: 04
- i10-index: 02

Journal Reviewer Roles

- Scientific Reports
- Numerical Heat Transfer, Part B: Fundamentals
- Thermal Science

Academic Contributions

- Handled **C Programming Laboratory** sessions for M.Sc. students, ensuring practical understanding of programming concepts and problem-solving skills.
- Co-guided **11 M.Sc. students** in their final semester projects, providing research direction, technical support, and academic mentoring.

Publications (Scopus Indexed)

1. Pooja, M. N., Narasimhamurthy, S. K., & Vajravelu, K. (2025). "Heat and mass transfer in Casson fluid flow with tri-hybrid nanoparticles on curved surface: A biomedical relevance". *Physics of Fluids*, 37(8). (AIP Publishing), Q1, I.F: 4.1, SCI.
2. Pooja, M.N., Narasimhamurthy, S.K., Anitha, V. and Vajravelu, K. (2025). "Thermal and Hydrodynamic Behavior of Magnetohydrodynamic Falkner–Skan Non-Newtonian Flow Over a Permeable Wedge With Homogeneous–Heterogeneous Reactions". *Heat Transfer*. (Wiley Publications), Q2, IF: 2.6, SCI.
3. Pooja, M. N., & Narasimhamurthy, S. K., (2025). "Thermal and bioconvective transport in Casson-based trimetallic nanofluid flow over a moving surface with gyrotactic microorganisms and thermophysical effects". *Physics of Fluids*, 37(8). (AIP Publishing), Q1, I.F: 4.1, SCI.
4. Divya, A., Ramasekhar, G., Pooja, M. N., Nagaraja, K. V., & Narasimhamurthy, S. K. (2025). "Linear regression analysis of Williamson hybrid nanofluid flow with thermal radiation: Numerical simulation". *International Journal of Thermofluids*, 101343. (Elsevier), Q1, SCI.
5. Pooja, M. N., Gunisetty, R., & Narasimhamurthy, S. K. (2025). "Enhanced heat performances of penta-hybrid nanofluid flow across a stretching surface employing the Homotopy perturbation method: An artificial neural network approach". *Physics of Fluids*, 37(7). (AIP Publishing), Q1, I.F: 4.1, SCI.
6. Pooja, M. N., Ramasekhar, G., & Narasimhamurthy, S. K. (2025). "Artificial neural network-based prediction of Casson tri-hybrid nanofluid flow over a curved stretching surface: application to drug delivery". *Multiscale and Multidisciplinary Modeling, Experiments and Design*, 8(8), 351. (Springer), Q2, I.F: 2.0, SCI.
7. Pooja, M. N., Narasimhamurthy, S. K., & Vajravelu, K. (2025). "Magnetohydrodynamic Non-Newtonian Fluid Flow, Heat and Mass Transfer in a Porous Channel with Stretching Walls Under the Influence of Thermophoresis, Brownian Motion, and Radiation". *Heat Transfer*, 54(4), 2837-2852. (Wiley Publications), Q2, IF: 2.6, SCI.
8. Pooja, M. N., Narasimhamurthy, S. K., & Vajravelu, K. (2025). "Maximization of heat and mass transport in a magnetised hybrid Ellis nanofluid flow with Carbon nanotubes over a porous stretching cylinder". *International Journal of Ambient Energy*, 46(1), 2483918. (Taylor & Francis), Q1, SCI.
9. Pooja, M. N., Narasimhamurthy, S. K., & Vajravelu, K. (2025). "Heat and Mass Transport in Magnetized CNT-Infused Hybrid Ellis Nanofluid Flow Over a Porous Stretching Surface". *Heat Transfer*, 54(3), 2013-2031. (Wiley Publications), Q2, IF: 2.6, SCI.
10. Pooja, M. N., Narasimhamurthy, S. K., & Vajravelu, K. (2025). "Darcy-Forchheimer nanofluid flow and heat transfer with convective boundary conditions: insights from differential transform method". *Numerical Heat Transfer, Part A: Applications*, 86(13), 4374-4400. (Taylor & Francis), Q2, IF: 3.5, SCI.
11. Pooja, M. N., & Narasimhamurthy, S. K. (2024). "Irreversibility analysis of CNT-enhanced Williamson nanofluid flow in a stretching cylinder". *ZAMM-Journal of Applied Mathematics and Mechanics/Zeitschrift für Angewandte Mathematik und Mechanik*, 104(11), e202301063. (Wiley Publications), Q2, IF: 3.2, SCI.
12. Pooja, M. N., & Narasimhamurthy, S. K. (2024). "Investigation of momentum and heat transfer characteristics of Maxwell fluid cascading over a stretching sheet: A HAM approach". *Physica Scripta*, 99(7), 075264. (IOP Publishing), Q2, IF: 2.6, SCI.
13. Pooja, M. N., Narasimhamurthy, S. K., & Anitha, V. (2024). "Numerical investigation of flow dynamics of Williamson fluid over an expanding cylinder/plate in presence of homogeneous/heterogeneous reactions". *International Journal of Applied and Computational Mathematics*, 10(1), 10. (Springer), Q3, SCI.

Papers Communicated

- Five research papers are currently under revision after peer review in reputed international Scopus-indexed journals.
- Twenty-Three research papers are under review in peer-reviewed international journals.
- Eight research papers have been communicated and are under editorial processing.


Conferences/Workshops/Seminars participated

1. Presented a paper titled *"Entropy-Driven Analysis of CNT-Enhanced Williamson Nanofluid in a Stretching Cylinder"* at the International Conference of the International Academy of Physical Sciences (CONIAPS XXVIII) on "Innovations in Computational and Physical Sciences for Sustainable Development (ICPSSD-2022)" organized by Vijayanagara Sri Krishnadevaraya University in Ballari, Karnataka, took place from December 21-23, 2022.
2. Participated in a webinar titled "Applications of Graph Theory and Machine Learning in Self-Replication Models," organized by the Department of Mathematics at the School of Engineering, Presidency University, Bengaluru, on December 22, 2022.
3. Participated in a two-day workshop on *"Computational Techniques in Fluid Dynamics"* at Bengaluru City University, Bengaluru on January 24-25, 2023.
4. Participated in a *"Two-day online hands-on workshop to Mastering Mathematical Concepts with Python Programming"* organized by Indian Mathematics Professors Association and Infinity Research & Development Institute, Coimbatore held on September 17-18, 2023.
5. Attended the webinar on *"Some New Results in Graph Realizability"* organized by Department of Mathematics, School of Engineering, Presidency University, Bengaluru on October 6, 2023.
6. Presented a paper titled *"Numerical Investigation of Flow Dynamics of Williamson Fluid over an Expanding Cylinder/Plate in the Presence of Homogeneous and Heterogeneous Reactions"* at the International Conference on Advances in Applied Mathematics (ICAAM-2024), organized by the Department of Mathematics, University College of Science, Tumkur University, Tumkur, held on January 10-11, 2024.
7. Presented a paper titled *"Darcy-Forchheimer nanofluid flow and heat transfer with convective boundary conditions: Insights from Differential Transform Method"* at the International Conference on Mathematical Analysis & Its Applications (ICMAA-2024), organized by the Department of Mathematics, Karnatak University, Dharwad, held on August 02-04, 2024.
8. Presented a paper titled *"Investigation of Momentum and Heat Transfer Characteristics of Maxwell Fluid Cascading over a Stretching Sheet: A HAM Approach"* at the International Conference on Advanced Mathematical Applications (ICAMA-2024), organized by the Department of Mathematics, D.R.M. Science College, Davanagere, held on November 22, 2024.

Declaration: I hereby declare that the above information and details provided by me are correct to the best of my knowledge.

Place: Shivamogga

Date: 26-10-2025



(Pooja M. N.)