*Department of Mathematics*
**Faculty of Science / University of Peradeniya**



# Dr. P.G.R.S. Ranasinghe

*B.Sc. (Perad.), Ph.D. (UCF, USA)*

**Head of the Department / Senior Lecturer**

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## About Me

I am currently the Head of the Department of Mathematics and a Senior Lecturer at the University of Peradeniya, Sri Lanka. I obtained my Ph.D. in Mathematics from the University of Central Florida, USA, in 2018, under the supervision of Professor Xin Li, specializing in Approximation Theory. Following my doctoral studies, I rejoined the University of Peradeniya in August 2018.

My research interests lie primarily in Complex Analysis, Approximation Theory, special functions, Number Theory, and Mathematical Cryptography, with particular emphasis on exploring connections between theoretical mathematics and emerging applications. I actively engage in undergraduate and postgraduate research supervision and serve as the Coordinator of the M.Sc. Programme in Industrial Mathematics at the Postgraduate Institute of Science, University of Peradeniya.

I believe that mathematics education should extend beyond teaching techniques and solving problems to nurturing curiosity, logical reasoning, independent thinking, and an appreciation of the beauty of mathematics. My approach to teaching emphasizes conceptual understanding, critical inquiry, and encouraging students to question established ideas.

Beyond teaching and research, I am committed to student welfare, academic leadership, and institutional quality enhancement. I believe that a university's true strength lies not only in its academic achievements but also in the opportunities it creates, the students it inspires, and the culture of excellence and integrity it sustains.

## Higher Education Qualifications

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| PhD | MSc | BSc |
| --- | --- | --- |
| University of Central Florida<br>USA | University of Central Florida<br>USA | University of Peradeniya<br>Sri Lanka |

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## Awards, Scholarships, Memberships & Fellowships

- Outstanding Dissertation Award for 2018 (Department of Mathematics, University of Central Florida)
- Graduate Presentation Fellowship, Spring 2018 (University of Central Florida)
- Graduate Research Excellence Award 2017 (Department of Mathematics, University of Central Florida)
- Graduate Teaching Assistant Award 2016 (Department of Mathematics, University of Central Florida)
- Selected to Microsoft Research PhD Fellowship 2014 (Department of Mathematics, University of Central Florida)
- University Prize for Academic Excellence, (University of Peradeniya)


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## Positions Held

- Editorial Board: RESCON 2018
- Coordinator: MSc program in Industrial Mathematics at the Postgraduate Institute of Science- (2018 September - to date)
- Co-Coordinator : International Conference on Mathematics and Mathematics Education ICMME 2021- (Year 2021)
- Secretary : Faculty Research Committee- (2021 July - to date)


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## My Teachings

- MT106: Classical Mechanics I
- MT201: Groups, Rings, and Fields
- MT301: Linear Algebra
- MT303: Differential Geometry
- MT305: Group Theory
- MT309: Number Theory
- MT312: Numerical Analysis II
- MT404: Complex Analysis II

## Research Interests (Research Fields/ Projects)

Complex Analysis, Functional Analysis, Harmonic Analysis, Number Theory, Orthogonal Polynomials, Approximation Theory, q-series

## Ongoing Research and Projects

- **Askey-Wilson operator on Theta Functions and generating series identities**
- **Lagrange inversion and generating series identities**
- **Techniques in Cryptography related to Number Theory**


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## Key Publications

Nothing to show under this subheading !!!

## Conferences

Nothing to show under this subheading !!!

## My Publications

Please goto the website.

https://sci.pdn.ac.lk/maths/staff/Rajitha-Ranasinghe

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