

## Dr. G. Alexander Raymand



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Chennai-600082  
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### Educational Qualification

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2015 - 2021	<b>Doctorate in Mathematics.(Full-Time)</b> <b>Specialization: Computational Fluid Dynamics</b> Anna University, Tamilnadu, India.
2009 – 2010	<b>M.Phil. in Mathematics</b> Madras Christian College, Tamilnadu, India
2006 – 2008	<b>M.Sc. in Mathematics</b> Madras Christian College, Tamilnadu, India
2003 – 2006	<b>B.Sc. in Mathematics</b> Madras Christian College, Tamilnadu, India

### Research Interests

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- Computational Fluid Dynamics
- Applied Mathematics

### Fellowships

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Junior Research Fellowship in SSN College of Engineering  
Senior Research Fellowship in SSN College of Engineering

## Summary

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### Academic experience

S.No	Institution Served	Period	Designation
1.	Madras Christian College	1 <sup>st</sup> Dec 2021 – Till Date	Assistant Professor
2.	SSN College of Engineering	October 2020 – July 2021	Senior Research Fellow
3.	SSN College of Engineering	Jan 2015 – August 2020	Junior Research Fellow
4.	Agni College of Technology	July 2013 - Dec 2015	Assistant Professor
5.	Hindustan University, Padur.	June 2011 - March 2013	Assistant Professor
6.	Madras Christian College, (SFS)	Dec 2010 - March 2011	Assistant Professor
7.	Madras Christian College	June 2010 - Oct 2010	Assistant Professor

### Extra - Workload

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Placement cell In-charge of Madras Christian College

### Resource Person

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- TJS College Engineering College
- Government Arts and Science College, Perumbakkam, Chennai
- Olive Public School, Chitlapakkam, Chennai
- MCCRSL Higher Secondary School, Chennai
- Kings and Queens Residential School, Chithambadi, Chennai.

### Workshops/Conference /Seminar

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- National workshop on “Application of Fuzzy Theory” 10-11, August-2011, HITS, Chennai
- National seminar on “Applications of mathematics in digital signal processing”, January 2012, HITS, Chennai.
- National seminar on “Application of mathematics in neural network in bio-open problems, January-2012, HITS, Chennai.

- Guest Lecture on Anxiety to mathematics, December-2011, HITS, Chennai.
- National seminar on cryptography and its applications, December-2012, MCC, Chennai.
- Guest Lecture on Graph theory in bio-informatics, October-2012, HITS, Chennai.
- Workshop on “MAT LAB” in Hindustan University Actives coordinator in various programmes conducted by Hindustan University as well by School of Science & Humanities such as Maths Olympiad, Harmony, Workshop in Fuzzy logic, etc.
- Presented paper in the International Conference on Mechanical Engineering and Design (ICMED-2016) held at SSN College of Engineering and accepted for publication.
- Attended International conference “3rd Sresa National Conference on Reliability and Safety Engineering” 01-03, December 2016.
- Attended short-term training program in IIT Madras in “Cardiovascular Solid and Fluid Mechanics” organized by the Department of Applied Mechanics and Engineering Design on 1st April 2017.
- Science Academies’ lecture workshop on "Theoretical and Computational Fluid Dynamics", Organized by the Department of Mathematics, Bharathiar University from 04<sup>th</sup> to 6<sup>th</sup> October 2017.
- "National Conference on Fluid Mechanics" (NCFM-2017) during 27<sup>th</sup> -28<sup>th</sup>, October 2017 Organized by Department of Mathematics, SSN College of Engineering, Chennai.
- Science and academies' Lecture Workshop on "Emerging Trends in Mathematical Modeling in Fluid Dynamics" (ETMMF - 2017), Organized by Department of Mathematics, Thiruvalluvar University on 04-12-2017.
- "National Seminar on Computational Biomedical Engineering" during September 26<sup>th</sup> - 27<sup>th</sup>, 2018, Organized by Department of Biomedical Engineering & Department of Mathematics, SSN College of Engineering, Chennai.
- "International Conference on Mathematical Methods, Modeling and Simulation in Chemical Sciences" during December 6<sup>th</sup> - 8<sup>th</sup>, 2018, Organized by the Department of Mathematics, Department of Chemical Engineering, SSN CE, and Society for the
- Advancement of Chemical Sciences and Education, Kalapakkam.

- National Conference on Mathematical Analysis and Computing, December 13<sup>th</sup> -14<sup>th</sup>, 2018, Organized by Department of Mathematics, SSN College of Engineering, Chennai.
- International Conference on Mechanical Engineering Design, April 25th - 26th, 2019, organized by Department of Mechanics, SSN College of Engineering, Chennai.
- 46th National Conference on Fluid Mechanics and Fluid Power (FMFP), December 9th - 11th, 2019 Organized by Department of Mechanics, PSG College of Technology, Coimbatore.

### **List of Publications**

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- The paper titled **“Core Variation in an Externally Pressurized Converging Thrust Bearing with Bingham Lubricant** in the International Conference on Mechanical Engineering Design held at SSN College of Engineering on 25-26 April 2016. And got published in the International Journal *“Applied Mechanics and Materials”* ISSN: 1662-7482, Vol. 852, pp 428 434 2016.
- The paper entitled **"Rheodynamic Lubrication of an Externally Pressurized Converging Circular Thrust Bearing using Bingham Lubricant"**, published in the Journal of Informatics and Mathematical Sciences” Published by RGN Publications, ISSN: 0975-5748 (online); 0974-875X (print), Vol. 10, Nos. 1 & 2, pp. 305–312, 2018.
- The paper entitled: **“Inertia Effects in Rheodynamic Lubrication of an Externally Pressurized Converging Thrust Bearing using Bingham Fluids”**. published in the Journal of Applied Fluid Mechanics (JAFM), Volume 12, Number 2, page N0. 587- 594, March 2019.
- The paper entitled: **“Inertia Effects in Rheodynamic Lubrication of an Externally Pressurized Converging Thrust Bearing using Herschel-Bulkley Fluids”** published in Journal of Applied Fluid Mechanics (JAFM), JAFM Volume 13, Number 4, July 2020 issue.
- The paper entitled **"Analysis of Externally Pressurized Thrust Bearing with inclination angle using Yield stress fluids"** publication in the International Journal: Lecture Notes in Mechanical Engineering, Springer Publication.

- The paper entitled " **Rheodynamic Lubrication of an Externally Pressurized Converging Circular Thrust Bearing using Casson Fluids**" have been accepted for presentation in 46th National Conference on Fluid Mechanics and Fluid Power (FMFP), December 9th - 11th, 2019 Organized by the Department of Mechanics, PSG College of Technology, Coimbatore.

#### **Personal Details**

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**Name** : G. Alexander Raymand  
**Father's Name** : J. Goudie  
**Date of Birth** : 01.09.1985  
**Age** : 39  
**Gender** : Male  
**Marital Status** : Married  
**Nationality** : Indian

**Place: Chennai**  
**Date: 12 -06-2025**



**G. Alexander Raymand**