

ACADEMIC APPOINTMENT	Assistant Professor, Department of Mathematics, Indian Institute of Technology Madras, Chennai - 600 036	August 2017 – Present
PREVIOUS APPOINTMENTS	Indian Institute of Science Assistant Professor, Department of Computational & Data Sciences	April 2016 – August 2017
	ICTS, Tata Institute of Fundamental Research Faculty, Interdisciplinary and Applied Mathematics	Jul 2015 – Mar 2016
	Courant Institute of Mathematical Sciences, New York University Assistant Professor, Department of Mathematics	Aug 2013 – May 2015
EDUCATION	Stanford University <ul style="list-style-type: none">• Doctor of Philosophy, Institute for Computational and Mathematical Engineering <i>Thesis Title: Fast Algorithms for Dense Numerical Linear Algebra and Applications.</i> <i>Advisor: Prof. Eric Darve.</i>• Master of Science, Statistics• Master of Science, Institute for Computational and Mathematical Engineering Indian Institute of Technology Madras <ul style="list-style-type: none">• Master of Technology, Aerospace Engineering• Bachelor of Technology, Aerospace Engineering	Sep 2007 – Jun 2013 Jul 2002 – Jun 2007
RESEARCH	Numerical Analysis, Numerical linear algebra, Fast algorithms, Approximation theory with applications to Inverse problems, Scattering, Computational statistics, Material Homogenization, Data assimilation, Filtering.	
HONORS & AWARDS	<ul style="list-style-type: none">• “Young Scientist Award” by The Academy of Sciences, Chennai• “Young Faculty Recognition Award” by Indian Institute of Technology, Madras, 2019.• “Young Scientist Research Award” by the Department of Atomic Energy, India, 2017.• Simons Foundation fellowship under “Science without Boundaries” of ICTS-TIFR, 2015.• “INSPIRE Faculty Award” to young achievers for independent research and emerge as a leader in future science & technology by the Department of Science & Technology, India, 2015.• Research Internship in Science and Engineering by Indo-US Science & Technology Forum at Tata Institute of Fundamental Research, Centre for Applicable Mathematics, Bangalore, 2011.• Stanford Interdisciplinary Graduate Fellowship - Honorable mention, 2010.• Centennial Teaching Assistant Award by Stanford in honor of outstanding teaching, 2009• Stanford University departmental fellowship to pursue graduate studies, 2007.• Cornell University departmental fellowship to pursue graduate studies, 2007 (declined).• Dr. V. Mohan Raman Prize, for best academic record in Bachelors and Masters in Aerospace Engineering, Indian Institute of Technology Madras, India, 2007.• Institute Medal for highest GPA in Aerospace Engineering for three consecutive years, Indian Institute of Technology Madras, India, 2004 – 07.• 99.81 percentile (out of 200,000 students) in the Common Aptitude Test, an all-India test conducted by the Indian Institute of Management, India, 2007.• General Electric Scholar-Leader scholarship for academic achievements and leadership qualities, 2006.	

- One among 30 students from all over India, to get selected for the International Mathematical Olympiad Training Camp held at Homi Bhabha Center for Science and Education, Mumbai, India, 2002.
- First in Mathematics Olympiad held by Association of Mathematics Teachers of India, 2001 & 2002.
- Fellowship by Nanyang Technological University, to pursue undergraduate education in Engineering, 2002 (declined).
- One among 750 students from a pool of about 350,000 students to be awarded National Talent Search Examination Scholarship by the Central Government of India, 2000.

TEACHING
EXPERIENCE

Go here for the list of all courses taught by me at Courant Institute, ICTS-TIFR, IISc and IIT Madras

Stanford University, CA

- Discrete Mathematics
Summer program by “Army High Performance Computing Research Center” **Jul 2013**
- Numerical Linear Algebra
Summer program by “Army High Performance Computing Research Center” **Jul 2012**
- Applied Analysis
Math refresher course for incoming engineering graduate students. **Sep 2011**
- Numerical Linear Algebra
Summer program by “Army High Performance Computing Research Center” **Jul 2011**
- Teaching Assistant, Institute for Computational and Mathematical Engineering **2008 – 2009**
Undergrad courses in Vector Calculus, Linear Algebra and PDE’s, Probability and Statistics

MENTORING

Go here for the list of all people mentored by me

PUBLICATIONS

Google Scholar (as of Feb 14th, 2023): Number of citations: 2138, h-index: 16, i10-index: 22, Erdos number: 4

- **Journal Publications:**
Google Scholar
- **Mathematical packages:**
 - BBFMM2D - Black Box Fast Multipole Method in two dimensions.
Available at: <https://github.com/sivaramambikasaran/BBFMM2D>
 - FLIPACK - Fast Linear Inversion PACKage.
Available at: <https://github.com/sivaramambikasaran/FLIPACK>
 - HODLR - Fast Direct Solver Package.
Available at: <https://github.com/sivaramambikasaran/HODLR>
 - ESS - Extended SemiSeparable Solver.
Available at: <https://github.com/sivaramambikasaran/ESS>
 - Celerite - Scalable 1D Gaussian Processes in C++, Python, and Julia
Available at: <https://github.com/dfm/celerite>
 - George - Fast and flexible Gaussian Process regression in Python Available at: <https://github.com/dfm/george>