



KARTHICK

Sengunthapuram
Kandasamy

March, 1989



PERSONAL INFO

+972 58 6487407
+918 86 1556807

skkarthick@ymail.com

403, 45 Hehaluts Street
Lev Hadar, Haifa
Israel – 3311320

LANGUAGES

TAMIL ██████████

ENGLISH ██████████

SKILLS

WRITING/TYPE SETTING ██████████

CAD MODELLING ██████████

COMPUTATIONAL METHODS ██████████

EXPERIMENTAL TECHNIQUES ██████████

DATA ANALYTICS ██████████

ACADEMIC PEER REVIEWING ██████████

INDEPENDENT RESEARCH ██████████

MENTORING ██████████

HOBBIES

- Cinematography
- Digital Film Making
- Desktop Publishing
- Lyrics Writing
- Short-Story Writing
- Music Production
- Running, Swimming

SUMMARY

I am a scientific researcher in the field of fluid-dynamics. I am researching on a wide range of flow problems including the flow physics involved in the mixing process inside an annular subsonic combustor, hypersonic inlet buzz, supersonic ejectors, and transonic cavity flow noise control, and shock-laden flow control in supersonic spiked bodies. My areas of research interest broadly include high-speed flows, high-speed imaging, image processing, computational fluid dynamics, noise reduction, supersonic gaseous mixing, and advanced optical flow diagnostics like PLMS, PIV & PLIF. My works are published in many reputed peer-reviewed journals and received accolades from several international conferences.

EXPERIENCES

Post-Doctoral Researcher (Post Doctoral Fellow, u/s Prof. J. Cohen)
Technion-Israel Institute of Technology | Faculty of Aerospace Engineering
Technion Wind Tunnel Complex, Haifa – 3200003, Israel
Jun 2018 – Present

Research Associate (u/s Prof. G. Jagadeesh)
Indian Institute of Science | Aerospace Engineering
Laboratory of Hypersonic and Shock wave Research
Bangaluru, Karnataka, India – 560012
Sep 2017 – May 2018

EDUCATION

Doctorate in Engineering (Ph.D.) | 81.25%
Indian Institute of Science | Aerospace Engineering
Laboratory of Hypersonic and Shock wave Research
Bangaluru, Karnataka, India – 560012
Aug 2012 – Sep 2017

Masters in Engineering (M.E.) | Aerodynamics | 95.00%
Birla Institute of Technology, Mesra
Department of Space Engineering and Rocketry
Mesra, Ranchi, India – 835215
Aug 2010 – Jul 2012

Bachelors in Engineering (B.E.) | Aeronautical Engg. | 86.74%
Rajalakshmi Engineering College
Faculty of Mechanical Engineering
Chennai, Tamil Nadu, India – 602105
Aug 2006 – Apr 2010

ACHIEVEMENTS

- Feb 2023 Award: Ramanujan Fellowship (Dept. Mech. Engg., IITM, India)
- Jan 2023 Honour: Editor's Pick, Phys. Fluids (Vol. 35, Issue 1, 016105)
- May 2022 Honour: Featured Article, Phys. Fluids (Vol. 34, Issue 6, 097235)
- Aug 2021 Achievement: Reviewed 300+ research articles on Fluid Dynamics
- Jun 2021 Honour: Invited Article in Phys. Fluids (Vol. 33, Issue 6, 066102)
- May 2021 Honour: Served in the Jury of AIAA: Graduate Scholarship Awards
- Dec 2020 Honor: Editor's Pick – Physics of Fluids 32(12):126104, 2020
- Aug 2020 Award: Extension of Fine Trust Post-Doc. Fellowship (Technion)
- Sep 2019 Top Peer Reviewer in Engineering & Cross-field (Web of Science)
- Aug 2019 Fine Trust Post-Doctoral Fellowship (Technion, Haifa, Israel)
- Dec 2018 Outstanding Reviewer award (4 Elsevier Journals)
- Feb 2018 Best Paper Award (NSSW-5, Chandigarh, India)
- July 2017 Best Paper Award (ISSW-31, Nagoya, Japan)
- July 2017 CSIR Travel Fellowship
- Feb 2016 Best Paper Award (NSSW-4, Coimbatore, India)
- Jul 2015 Best Poster Award (ISSW-30, Tel-Aviv, Israel)
- Aug 2012 MHRD Scholarship for Doctoral Studies, India (IISc, Bangalore)
- May 2012 University 1st in the Post Graduate Studies
- Aug 2010 UGC Scholarship for Post Graduate Studies, India (BIT, Mesra)
- May 2010 University 2nd in the Undergraduate Studies (Affiliated: Anna Univ.)

AFFILIATIONS

- APS** Member, American Physical Society | 61251158
- RAeS** Member, Royal Aeronautical Society | 3026787
- AIAA** Sr.Member, American Institute of Aeronautics & Astronautics | 513496
- ASME** Member, American Society of Mechanical Engineers | 102105929
- EUROMECH** Member, European Mechanics Society | 2006609
- ISWI** Member, International Shock Wave Institute | 30910373
- SSWR** Member, Society for Shock Wave Research, India

STATS

citations – 236 | h-index – 9 | i10-index – 9 | Google Scholar

Articles (Academic)	18	Reviewed Articles/Journal	390/48
Proceedings (International)	8	Articles/Books (Tamil)	9/2
Proceedings (National)	9	Short Films (Tamil)	12
Conference (Meetings)	7	Music Production (Tamil)	4