## Siva Viknesh

EDUCATION		
<b>Scientific Computing &amp; Imaging Instit</b> <i>Ph.D. in Mechanical Engineering</i> , CPI : 3.9 Thesis : <b>Deep learning for Unsteady flu</b>	7/4	Aug. 2022 – . Present
<ul> <li>Advisor: Prof. Kamal Poddar &amp; Prof. Ta</li> <li>Developed a Data-driven Aerodynar</li> <li>Developed 2D - Orthogonal grid ger</li> <li>Developed 2D DNS/Implicit LES Co</li> <li>Developed MATLAB code to evaluate</li> </ul>	te Engineering, CPI : 8.33/10 symmetric airfoil by pitching oscillation apan K. Sengupta mic model for a pitching airfoil on Fourier basis.	emes.
<b>Anna University</b> , <i>Tamilnadu</i> , <i>India</i> <i>Bachelors of Engineering in Aeronautical En</i> Thesis : <b>Numerical simulation of fluid</b>	<i>agineering,</i> CPI : 8.30/10 flow over a rectangular wing with wingtip slots	Aug. 2012 – Apr. 2016
Ramnagar Suburban MHSS, Coimbato Class XII, 85.83%	ore, Tamilnadu, India	May, 2012
<b>KPM MHSS, Coimbatore</b> , <i>Tamilnadu</i> , <i>In</i> <i>Class X</i> , 87.60%	ıdia	May, 2010
WORK EXPERIENCE		
	iodels to evaluate aerodynamic performance and static stabili insteady freestream for calculating <b>dynamic stability deri</b> a	
Senior Research Associate, Low Speed Aerodynamics lab, IIT Kanpur, U • Experimental investigation of fluid flow • Utilizing the Bode-plot to determine		Jan. 2021 – Aug. 2021 ynamic forces and moments.
<b>CFD Engineer</b> , FlowXplore, Coimbatore, Tamilnadu, India	<b>rtical axis wind turbines</b> by MRF technique.	May. 2016 – Nov. 2017
TECHNICAL SKILLS		
• PyTorch	• MATLAB • CATLA	

o PyTorcho MATLABo CATIAo CUPYo NI LabViewo ANSAo MPI Fortrano Fluent - Solving/Meshingo Tecplot

## JOURNAL PUBLICATION

- ADAM-SINDy: An Efficient Optimization Framework for Parameterized Nonlinear Dynamical System Identification, Siva Viknesh, Younes Tatari, Amirhossein Arzani, Journal of Computational Physics, Submitted, 2024.
- Role of flow topology in wind-driven wildfire propagation, Siva Viknesh, Ali Tohidi, Fatemeh Afghah, Rob Stoll, Amirhossein Arzani, Journal of Fluid Mechanics, Submitted, 2024.
- Active control of separated flow on a symmetric airfoil by pitching oscillation, Siva Viknesh S. and Kamal Poddar, Physics of Fluids, August 2021.
- Grid sensitivity and role of error in computing a lid-driven cavity problem, V. K. Suman, Siva Viknesh S., Mohit K. Tekriwal, Swagata Bhaumik, and Tapan K. Sengupta, Phys. Rev. E, Jan 2019.

## **ACTIVITIES & ACHIEVEMENTS**

- **President & Admin** of Tamil Club at IIT Kanpur (Jan 2019 Sep 2021).
- Received a Full scholarship for pursuing the M.S. program at IIT Kanpur.
- Secured All India Rank **141** in GATE AE 2017.
- Secured Undergraduate Anna University Rank 38 across Tamilnadu.
- Inter-department Chess champion at Park College of Technology in 2013.