

# Shounak Dey

<u>Contact Information</u>	<a href="mailto:shounakd@jncasr.ac.in">shounakd@jncasr.ac.in</a>
<u>Research Interest</u>	Heat Transfer, Computational Fluid Dynamics, Fluid Mechanics
<u>Education</u>	<ul style="list-style-type: none"> <li>• <i>Internship</i> – Institute of Mechanics and Engineering, University of Bordeaux. June 2024 – July 2024 Advisor – Dr. Sakir Amiroudine.</li> <li>• Jawaharlal Nehru Centre for Advanced Scientific Research, Bengaluru PhD. Scholar, August 2022 – Present [7.76/10] Advisor – Dr. Diwakar Seyyanur Venkatesan</li> <li>• Preparation for Graduate Aptitude Test in Engineering (GATE) [Aug '21 – Feb 22]</li> </ul>
	<ul style="list-style-type: none"> <li>• RV College of Engineering, Bengaluru B.E. in Mechanical Engineering, August 2017 – July 2021 [8.42/10]</li> </ul> <p>Major Project - <i>Study on Effect of Laser Process Parameters on Laser Transmission Welding using ANSYS</i> Advisor – Dr. Girish Kumar R</p> <p>Minor Project - <i>Flow Separation Control of Low-Pressure Turbine Cascade Blade using a Passive Device – Mechanical Trip</i> Advisor – Gajanan T.</p>
<u>Examination Scores</u>	<ul style="list-style-type: none"> <li>• GATE 2022 – 521/1000</li> </ul>
<u>Technical Abilities</u>	<ul style="list-style-type: none"> <li>• Languages – C++, Python</li> <li>• Tools – COMSOL, SolidWorks</li> <li>• Relevant Courses Completed – Thermal Engineering, Thermodynamics, Fluid Mechanics, Heat and Mass Transfer.</li> </ul>
<u>Activities</u>	<ul style="list-style-type: none"> <li>• Conducted experiments in measurement of contact angle on various surfaces to test hydrophobicity/hydrophilicity. (2023)</li> <li>• Conducted experiments to measure surface tension of water via Pendant Drop method. (2023)</li> <li>• Developed matrix class in C++ and formed a code to measure simulate 2D Heat Conduction with Dirichlet boundary conditions. (2023)</li> <li>• Participated in introductory training on SankhyaSutra Taral, a CFD simulation platform. (2022)</li> </ul>
<u>Certifications and Courses</u>	<ul style="list-style-type: none"> <li>• Python Data Structures - Coursera (2020)</li> <li>• Amateur Wireless Station License, Department of Telecommunications, Government of India. (2019)</li> <li>• Laws of Thermodynamics - NPTEL (2018)</li> <li>• Content- Writing - V-Skills (2018)</li> </ul>
<u>Extra-Curricular Activities</u>	<ul style="list-style-type: none"> <li>• Finalist in Water Rocket Competition in National Student's Space Championship organised by IIT Kharagpur (2019)</li> <li>• Established the first amateur astronomy club in RV College of Engineering, “dhRuVa” (2018)</li> </ul>