

# Sashwat Prasadh

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🌐 LinkedIn

🌐 Website

📍 St. John's, Canada

## Education

<b>Memorial University of Newfoundland</b> <i>Bachelor's of Science in Physics</i>	2019–2023
<b>K.V Indian Institute of Technology Bombay</b> <i>Diploma</i>	2017–2019

## Experience

<b>Data Scientist: Machine Learning</b> <i>Memorial University</i>	May 2024 – Present <i>Department of Biology</i>
• Neural Network Applications for Physical and Biological Oceanography.	
<b>Research Assistant- Computational Fluid Dynamics</b> <i>Memorial University</i>	May 2023 – August 2023 <i>Department of Physical Oceanography</i>
• Data Analysis and Python Simulation of Particle Image Velocimetry.	
<b>Experimental Physics Assistant</b> <i>Memorial University</i>	Sept 2024 – Dec 2024 <i>Department of Physics</i>
• Spectroscopy, Lab Safety, and Website Design for a Material Physics Lab.	
<b>Research Intern- Astrophysics</b> <i>Honor's Thesis: Age Discrepancy in Three Galactic Cepheid Binaries</i>	Jan 2024 – April 2024 <i>Department of Physics</i>
• Inverse and Forward Modelling using MESA to study binary star systems.	
<b>Physics Resource Development officer</b> <i>Memorial University</i>	Jan 2023 – April 2023 <i>Department of Physics</i>
• Workshop Manuals for Facilitating Science Education in School Curriculum.	

## Publications (Upcoming)

**Prasadh, Sashwat;** Neilson, H.R.; Evans, N.R. *Resolving Age Discrepancy: Stellar Merger and Evolution of Three Galactic Cepheid Binaries* | Submission: Feb 2025

**Prasadh, Sashwat;** Ralph, Rebecca; Fitzgerald, J.G.; Wheeler, J.D. *Neural Network Applications for Particle Image Velocimetry of Steady Fluid Flow* | Expected Submission: May 2025

## Achievements

- **Dr. Hugh Anderson Junior and Senior Scholarship in Physics and Physical Oceanography** | Awarded Fall 2023
- **Best Poster in Physics & Physical Oceanography** | SEA Conference | April 2024

## Conference Presentations

- **Prasadh, Sashwat;** Neilson, H.; Evans, N.R. *Stellar Astrophysics: Age Discrepancy in Cepheid Binaries*, **AUPAC**, Feb. 2024, Mount Allison University, NB
- Ralph, Rebecca; **Prasadh, S;** Fitzgerald, JG; Wheeler, JD. *Development of machine learning methods to estimate local fluid flow environments surrounding marine pelagic organisms*, *Science Atlantic Conference (Applied Aquatic Science)*, Coauthored Talk - March 2024, Dalhousie University, NS
- **Prasadh, Sashwat;** Neilson, H.; Evans, N.R. *Resolving Age Discrepancy: Stellar Mergers and Evolution of Three Cepheid Binaries*, **SEA**, April 2024, Memorial University, NL
- Ralph, Rebecca; **Prasadh, S;** Fitzgerald, JG; Wheeler, JD. *Developing new methods for improving estimates of fluid flow velocities in in situ plankton-flow studies*, **SEA**, April 2024, Memorial University, NL

## Technical Skills

- **Computational:** Python, Fortran | Machine learning, Data Analysis, Inverse Modelling, Image Analysis
- **Skills:** Spectroscopy (NMR, FTIR, Brillouin), Data Collection & Visualization, Financial Analysis