Sashwat Prasadh

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Education

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

Experience

Data Scientist: Machine Learning May 2024 – Present
Memorial University *Department of Biology*

- Neural Network Applications for Physical and Biological Oceanography.

Research Assistant- Computational Fluid Dynamics May 2023 – August 2023
Memorial University *Department of Physical Oceanography*

- Data Analysis and Python Simulation of Particle Image Velocimetry.

Experimental Physics Assistant Sept 2023 – Dec 2023
Memorial University *Department of Physics*

- Spectroscopy, Lab Safety, and Website Design for a Material Physics Lab.

Research Intern- Astrophysics Jan 2024 – April 2024
Honor's Thesis: Age Discrepancy in Three Galactic Cepheid Binaries *Department of Physics*

- Inverse and Forward Modelling using MESA to study binary start systems.

Physics Resource Development officer Jan 2023 – April 2023
Memorial University *Department of Physics*

- 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 Presenations

- **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