

Contact

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Skills

Computational Astrophysics

Observational Astrophysics

Theoretical Astrophysics

Scientific Computing

Data Analysis

Data Visualization

Data Science

Computing Skills

C++

Python

Fortran

IDL/GDL

OpenMPI

AstroPy

SciPy

Matplotlib

NumPy

pandas

ASHKBIZ DANEHKAR

Astrophysicist

Summary

Astrophysicist with lots of experience in data analysis and visualization. Research interest in AGN, starburst feedback, ISM astrophysics, and nebulae.

Experience

- Space Scientist (Astronomy) 2025 – Present
Universities Space Research Association
 - Support Interagency Implementation and Advanced Concepts Team.
- Research Scientist (Astrophysics) 2022 – 2025
Eureka Scientific Inc
 - Conducted research on the black hole spins in radio-quiet AGN.
- Research Fellow 2019 – 2021
University of Michigan
 - Conducted hydrodynamic simulations of starburst feedback.
 - Produced photoionization models of starburst-driven outflows.

- Postdoctoral Fellow 2015 – 2018
Harvard-Smithsonian Center for Astrophysics
 - Analyzed X-ray data of active galactic nuclei and symbiotic systems.
 - Conducted Hubble imaging analysis on ionized nebulae.

- Visiting Early-Stage Researcher 2008
 - Investigated coupling between dual gravity and a BF model.

Education

- Ph.D., Physics and Astronomy 2014
Macquarie University, Australia
- M.S., Plasma Physics (with distinction) 2009
Queen's University Belfast, UK
- M.S., Computational Electrical Engineering 2007
University of Rostock, Germany

Grants

- NASA NICER GO Program (80NSSC23K1098) 2024
- NASA Astrophysics Data Analysis Program (80NSSC22K0626) 2022 – 2024

Awards

- Macquarie University Research Excellence Scholarship 2010 – 2014
- Department for Employment and Learning Studentship 2008 – 2009
- Marie Curie Early Stage Researcher 2008

References

Available Upon Request.

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See git.io/f4dXp