CURRICULUM VITAE

Nationality: Indian Website: aswinpvijayan.github.io

RESEARCH INTERESTS

Simulations of galaxy formation and evolution, high-redshift galaxies, dust in galaxies, forward modelling, synergy between simulations and observations.

WORK EXPERIENCE

Astronomy Research Fellow

April 2024 - Present

Astronomy Centre, University of Sussex, United Kingdom

DAWN Postdoctoral Fellow

Oct 2021 - March 2024

Cosmic Dawn Center, DTU Space, Technical University of Denmark (DTU)

EDUCATION

PhD in Astronomy

30 Sept 2017 - 30 Sept 2021

Astronomy Centre, University of Sussex, United Kingdom Advisors: Prof. Peter A. Thomas & Dr. Stephen M. Wilkins

Title: The effect of dust in observing galaxies in the early Universe

MSc. Research in Astronomy, Cosmology

1 Sept 2015 - 31 July 2017

Sterrewacht Leiden, Universiteit Leiden, The Netherlands

Major Project: Analysing the impact of environment and mergers on halo concentrations,

supervisor Dr. Camila A. Correa.

Minor project: A search for serendipitous emission lines in ALMA observations of high-redshift galaxies,

supervisor Dr. Jacqueline Hodge.

Bachelor of Technology (B.Tech) in Engineering Physics

1 Aug 2010 - 31 July 2014

National Institute of Technology Calicut (NITC), Kerala, India

Bachelor Thesis: One Dimensional Organic Semiconductor Nanostructures for Solar Cell Fabrication,

supervisor Dr. Vari Sivaji Reddy

FIRST & SECOND AUTHOR PUBLICATIONS

1. 2024 – First Light And Reionisation Epoch Simulations (FLARES) XVI: Size Evolution of Massive Dusty Galaxies at Cosmic Dawn from UV to IR. Submitted, A&A, arXiv:2408.11037

Authors: Paurush Punyasheel, Aswin P. Vijayan, and others

2. 2023 – First Light And Reionisation Epoch Simulations (FLARES) XII: The consequences of star-dust geometry on galaxies in the EoR. Accepted, MNRAS, arxiv:2303.04177

Authors: Aswin P. Vijayan, Peter A. Thomas, and others

3. 2022 – First Light And Reionisation Epoch Simulations (FLARES) VII: The Star Formation and Metal Enrichment Histories of Galaxies in the early Universe. Published, MNRAS, arXiv:2208.00976

Authors: Stephen M. Wilkins, Aswin P. Vijayan, and others

4. 2022 – First Light And Reionisation Epoch Simulations (FLARES) VI: The colour evolution of galaxies z=5-15. Published, MNRAS, arXiv:2207.10920

Authors: Stephen M. Wilkins, Aswin P. Vijayan, and others

5. 2022 – First Light And Reionisation Epoch Simulations (FLARES) V: The redshift frontier. Published, MN-RAS, arXiv:2204.09431

Authors: Stephen M. Wilkins, Aswin P. Vijayan, and others

6. 2022 – First Light And Reionisation Epoch Simulations (FLARES) III: The properties of massive dusty galaxies at cosmic dawn. Published, MNRAS, arXiv:2108.00830

Authors: Aswin P. Vijayan, Stephen M. Wilkins, and others

7. 2021 – First Light And Reionisation Epoch Simulations (FLARES) II: The Photometric Properties of High-Redshift Galaxies. Published, MNRAS, arXiv:2008.06057

Authors: Aswin P. Vijayan, Christopher C. Lovell, and others

8. 2021 - First Light And Reionisation Epoch Simulations (FLARES) I: Environmental Dependence of High-Redshift Galaxy Evolution. Published, MNRAS, arXiv:2004.07283

Authors: Christopher C. Lovell, Aswin P. Vijayan, and others

9. 2019 - Detailed dust modelling in the L-Galaxies semi-analytic model of galaxy formation. Published, MN-RAS, arXiv:1904.02196

Authors: Aswin P. Vijayan, Scott J. Clay, Peter A. Thomas, and others

Metrics on all publications can be found from the SAO/NASA Astrophysics Data System (ADS) webpage here.

TEACHING & OTHER EXPERIENCE

EACHING & OTHER EATERICE	
Supervision of Paurush Punyasheel, MPhys student at BITS Pilani, Goa, India Dust-continuum sizes of galaxies in FLARES, co-supervision with Prof. Thomas R. Greve	Cosmic Dawn Center, DTU September-May 2023/24
o-supervision of Andreas Kyster Rasmussen & Maria Madsen, BSc students analysis of photometric redshifts in CEERS using eazy & bagpipes, supervision with Dr. Minju M. Lee, Dr. Steven Gillman & Prof. Thomas R. Greve	Cosmic Dawn Center, DTU September-November 2022
Supervision of Rebeca G Reyes Carrion, Dawn-IRES student Star formation efficiency in the First Light And Reionisation Epoch Simulations	Cosmic Dawn Center, DTU June-August 2022
Co-supervision of Søren Staal, BSc student Analaysing the morphology of high-z galaxies with FLARES and <i>JWST</i> , co-supervision with Dr. Steven Gillman	Cosmic Dawn Center, DTU Feb-June 2022
2022 DAWN Fellowship Committee Member Committee of peers to select from applicants for the 2022 Dawn Postdoctoral Fellowship	Jan-Feb 2022
DISCnet Work Placement , with Kenya Red Cross Society, Kenya (Online) Validation of inferences from satellite observations with ground survey data for drought	Mar-Nov 2020 impact studies
Co-supervision of Hamish Garnett, Mphys student Mass and metallicity gradients in FLARES, main supervisor Prof. Peter A. Thomas Effect of random seeds and AGN on galaxy properties in the EoR using EAGLE simulation physics, main supervisor Prof. Peter A. Thomas	oct-Apr 2020/21
Associate Tutor, School of Mathematical & Physical Sciences, University of Sussex Associate Tutor for the Foundation year physics course Properties of Matter (F3216) Associate Tutor for the third year undergraduate physics course Extragalactic Astronomy	2018-2020 y (F3209)
ALKS	
Seminar, University of Tokyo	Jan 2025

TA

Dawn Summit 2022, Copenhagen, Denmark

Talk Title: Consequences of star-dust distribution and geometry on EoR galaxies

ALKS		
Seminar, University of Tokyo Talk Title: The early Universe through the FLARES lens	Jan 2025	
Simulations workshop , University of Tokyo Talk Title: <i>Living in a broken Universe: Insights on the high-redshift from FLARES</i>	Dec 2024	
IReNa Online seminar series (Invited Talk) Talk Title: First Light And Reionisation Epoch	April 2024	
Bridging the models & observations of galaxies' dust in the JWST era , Trieste, Italy (Invited Talk) Talk Title: <i>Reliability of emission line ratios in the early Universe - consequences of star-dust geometry</i>	April 2024	
Shedding new light on the first billion years of the Universe , Marseille, France Talk Title: <i>Reliability of Emission Line Ratios in EoR Galaxies: Impacts of Complex Star-Dust Geometry</i>	July 2023	
Dawn Summit 2023 , Cosmic Dawn Center, Denmark (Review Talk) Talk Title: First Stars and Galaxies	June 2023	
L-Galaxies Workshop , University of Hertfordshire, UK (Invited Talk) Talk Title: <i>Dust modelling in L-Galaxies and some applications</i>	Nov 2022	

June 2022

ADAM (Annual Danish Astronomy Meeting), Fredericia, Denmark Talk Title: FLARES: Unraveling the properties of massive galaxies at cosmic dawn NAM (National Astronomy Meeting), Balt, UK (Online) Talk title: FLARES: The photometric properties of galaxies at cosmic dawn EAS (European Astronomical Society) Meeting (Online) Talk title: Obscured star formation in the EoR with FLARES SAZERAC2 (Online) Talk title: Properties of massive dusty-galaxies at cosmic dawn Virgo Consortium Meeting (Online) Talk title: Photometric properties of galaxies in the FLARE simulation SAZERAC (Online) Talk title: Photometric properties of galaxies in the FLARE simulation EAS (European Astronomical Society) Meeting, Leiden, The Netherlands (Online) Talk title: FlARES: First Light And Reionisation Epoch Simulations Virgo Consortium Meeting, Durbam, UK Talk title: FLARES: First Light And Reionisation Epoch Simulations Virgo Consortium Meeting, Durbam, UK Talk title: FLARES: First Light And Reionisation Epoch Simulations Virgo Consortium Meeting, Leiden, The Netherlands Virgo Consortium Meeting, Leiden, The Netherlands (Online) Talk title: FLARES: First Light And Reionisation Epoch Simulations Virgo Consortium Meeting, Leiden, The Netherlands Virgo Consortium Meeting, Leiden, The Netherlands Virgo Consortium Meeting, Leiden, The Netherlands Talk title: Petaletid daws motelling in the L-GALAXIES' semi-analytic model of galaxy formation PROFESSIONAL ACTIVITIES AND ORGANISATION EXPERIENCE co-PI of the FLARES Project, suite of re-simulations specially designed to study galaxies observable in the high-redshift Universe Chair of High-Redshift galaxies: Apples to oranges from dusk to dawn, EAS 2024, Padova Special Session co-Chair of Dust enrichment of early galaxies (z-5) in the era of JWST and ALMA, EAS 2024, July 2024 Padova Special Session LOC for D-LOCKS 2024, at DTU Space, Denmark Virgo Consortium Meeting, Organised discussion session on Mock observations of simulations The Virgo Consortium Meeting, Organised discussion sess			
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Astronomy on Tap (AoT), Copenhagen, Denmark Feb 2021		· · · · · · · · · · · · · · · · · · ·	Feb 2021
	OU	UTREACH	
			Feb 2021

Volunteered at the Webb Telescope stand, talking to the public about the realm of astronomy it would be exploring

ACHIEVEMENTS

DISCnet scholarship to pursue PhD at University of Sussex, UK

30 Sept 2017 – 30 Sept 2021

Partial **Oort/NOVA** MSc scholarship from Leiden Observatory, The Netherlands

1 Sept 2015 - 31 July 2021

GATE (Graduate Aptitude Test) and JEST (Joint Entrance Screening Test) in Physics,

2015

All India Rank 88 and 71 (Some of the most competitive exams for graduate schools in India)

NET (National Eligibility Test, for Junior Research Fellowships) in the Physical Sciences,

Dec 2014

All India Rank 51

COMPUTING SKILLS

Languages

C, Fortran (Basic), Julia (Basic), Python

Astronomy Software

casa, cloudy, gadget, SED fitting

Others LaTeX, High Performance Computing, Machine Learning,

Natural Language Processing

LANGUAGES

Malayalam (Native), English (Fluent), Hindi (Intermediate), Sanskrit (Intermediate)

REFERENCES

- Prof. Stephen M. Wilkins, Astronomy Centre, University of Sussex, Brighton, UK
- Prof. Thomas R. Greve, Cosmic Dawn Center, DTU Space, DTU, Kongens Lyngby, Denmark
- Prof. Georgios E. Magdis, Cosmic Dawn Center, DTU Space, DTU, Kongens Lyngby, Denmark