CURRICULUM VITAE OF ZIANG YAN

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EMPLOYMENT

Ruhr-University Bochum

2021.11-present

German Centre for Cosmological Lensing Fellow

EDUCATION

University of British Columbia, Vancouver

2017.09-2021.08

PhD in Physics

Supervisor: Profs. Gary Hinshaw and Ludovic van Waerbeke

Thesis: Probing the Universe with Multiple Large-Scale Structure Tracers

University of British Columbia, Vancouver

2015.07-2017.08

MSc in Astronomy

Supervisor: Prof. Gary Hinshaw

Tsinghua University, Beijing

2011.09-2015.07

BSc in Physics

Supervisor: Prof. Charling Tao

HONORS AND AWARDS

2020 President's Academic Excellence Initiative PhD Award (UBC)

2018-2022 UBC Four Year Doctoral Fellowship (UBC)

2016 Physics and Astronomy Graduate Scholarship (UBC)

2015 Faculty of Science Graduate Award (UBC)

2014 The outstanding academic scholarship of Guanghua (Tsinghua)

2013-2015 Tsinghua Xuetang scholarship (Tsinghua)

2013-2015 Member Student of Tsinghua Xuetang Physics Program (Tsinghua)

2012 The outstanding academic scholarship of Zheng Geru (Tsinghua)

COMPUTER SKILLS

Languages Python, Shell script, LATEX, C, IDL

Software Tools for cosmological modelling, measurements, and analysis; Tensorflow

SERVICE

• Reviewer: Publications of the Astronomical Society of Japan, Nature Astronomy, Monthly Notices of the Royal Astronomical Society;

• Organizer of the journal club at GCCL

INTERNATIONAL PROJECT INVOLVEMENT

Dark Energy Science Collaboration In-kind contributor developing redshift calibration pipeline "RAIL"	2021-Present
Ultraviolet Near-Infrared Optical Northern Survey Systematics analysis with 2 point functions	2021-Present
Chinese Space Station Telescope Systematics mitigation	2020-Present
Kilo-Degree Survey Cosmological analysis with $3 \times 2pt$ and $6 \times 2pt$; cross-correlations	2019-Present
Cosmology Large Angular Scale Surveyor Noise analysis	2017-2021
Primordial Inflation Explorer Analyzing noise propagation in the instrument	2016-2017

ACADEMIC TALKS

- Parallel session talk, DESC collaboration meeting at ETH, 2024
- Seminar talk, Kavli IPMU, 2024
- Invited talk, Institute for Theoretical Physics, Utrecht University, 2024
- Conference talk, Starting the golden years: going strong after KiDS, Leiden, 2024
- Invited talk, Department of Astronomy, Tsinghua University, online, 2023
- Parallel session talk, DESC collaboration meeting at SLAC, 2023
- Short talk and poster, YITP workshop, 2023
- Invited talk, Yunnan University, online, 2023
- Talk, CSST seminar, online, 2022
- Colloquium talk, AIRUB, Bochum, 2022
- Talk, KiDS busy week, Hull, UK, 2022
- Talk, Cosmology from home workshop, online, 2022
- Seminar talk, University of British Columbia, 2022
- Talk, KiDS busy week, Leiden, the Netherlands, 2021
- Invited talk, Department of Astronomy, Tsinghua University, 2021
- Invited talk, Shanghai Astronomical Observatory, 2021
- Seminar talk, German Centre for Cosmological Lensing, online, 2020
- Seminar talk, Kavli IPMU, online, 2020
- Seminar talk, CSST seminar, online, 2020
- Talk, KiDS busy week, online, 2020
- Group seminar talk, University of Waterloo, online, 2020

- Group seminar talk, Ohio State University, online, 2020
- Group seminar talk, Stanford University and Ludwig Maximilian University of Munich (adjoint meeting), online, 2020
- Invited seminar talk, Tsung-Dao Lee Institute, online, 2020
- Astronomy colloquium talk, University of British Columbia, 2020
- Talk, UBC-SFU-TRIUMF adjoint meeting, TRIUMF, 2020
- Talk, UBC-SFU-TRIUMF adjoint meeting, SFU, 2019
- Invited talk, Institut d'Astrophysique Spatiale, 2019
- Talk, UBC-SFU-TRIUMF adjoint meeting, SFU, 2017

VISITS, WORKSHOPS AND MEETINGS

• DESC collaboration meetin	g,	ETH, Zürich, Switzerland, 2024.07	
• Visiting scholar,		Kavli IPMU, Kashiwa, Japan, 2024.06	
• Visiting scholar,		ITP, Utrecht, the Netherlands, 2024.05	
• DESC collaboration meetin	ıg,	SLAC, CA, USA, 2023.07	
• KiDS busy weeks	Institutes in Bochum, Leid	en, Warsaw, Hull, and London, 2021-2023	
• Future Science with CMB	x LSS workshop	YITP, Kyoto, Japan, 2023.04	
• Tensions in cosmology conf	erence	Corfu, Greece, 2023.04	
• Visiting scholar	Department of	Department of Astronomy, THU, Beijing, China, 2021.09	
• Visiting scholar	Shanghai Astronomic	Shanghai Astronomical Observatory, Shanghai, China, 2021.08	
• CosmoGold IAP 2019 Work	kshop	IAP, Paris, France, 2019.06	
• Visiting scholar	Institut d'Astro	ophysique Spatiale, Orsay, France, 2019.06	
• SSI SLAC Summer Institute 2017 Workshop		SLAC, CA, USA, 2017.08	
• Summer Research		APC, Paris, France, 2014.07	
• Frontier Conference in Cosmology		Beijing, China, 2014.06	

TEACHING AND MENTORING EXPERIENCE

Teaching Assistant at UBC

Featured courses: Cosmology, Measurements in Physics, Group theory, High energy astrophysics, Introductory physics

Mentorship

- Angela Zhou (a high-school student): An investigation of a dark matter-dark energy interaction model to explain discrepancies in Hubble rate measurements.(2019-2021);
- Susrestha Paul (Bachelor's project): Constraining dark energy equation of state from KiDS data(2024-);
- Leon Gawlytta (Master's project): A study on Lyman-break galaxy from KiDS data(2023-);
- Fabian Kampshoff (Master's project): Cross-correlating KiDS-Legacy data with CMB data (2024-);

• Shiyang Zhang (PhD project): Cross-correlation between KiDS and Gamma-ray; identification of dwarf galaxies from KiDS data(2023-)

OUTREACH

Public talks

- The Century of the Universe (Public talk in high schools, 2021)
- High energy physics vs cosmology (Online interview show, 2021, link)
- You first Cosmology class (Online interview show, 2021, link)
- Kick Start the Universe (Three Minute Thesis Competition, UBC, 2017)
- Introduction to Astronomy (Xinhuang No.1 Middle School, Hunan, China, 2015)

Book Translation (To Chinese)

- Gravity: A Very Short Introduction by Timothy Clifton; ISBN: 9787544392730
- El sistema solar (The Solar System) by Joel Gabas Masip; ISBN: 12829555

Other activities

- News & Views article Weighing galaxy clusters by laptop for Nature Astronomy,
- Writing popular science articles about science, physics and astronomy on social media
- Outreach activity with the Astronomy Club of High School Affiliated to Minzu University
- Volunteer in stargazing activities organized by the Astronomy Club of Tsinghua University

LANGUAGE SKILLS

Mandarin (first language), English (fluent), Japanese (intermediate), German (intermediate), Cantonese (moderate)