

CURRICULUM VITAE OF ZIANG YAN

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EMPLOYMENT

Ruhr-University Bochum German Centre for Cosmological Lensing Fellow	2021.11-present
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EDUCATION

University of British Columbia, Vancouver PhD in Physics Supervisor: Profs. Gary Hinshaw and Ludovic van Waerbeke Thesis: <i>Probing the Universe with Multiple Large-Scale Structure Tracers</i>	2017.09-2021.08
University of British Columbia, Vancouver MSc in Astronomy Supervisor: Prof. Gary Hinshaw	2015.07-2017.08
Tsinghua University, Beijing BSc in Physics Supervisor: Prof. Charling Tao	2011.09-2015.07

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	2021-Present
Ultraviolet Near-Infrared Optical Northern Survey Member	2021-Present
Kilo-Degree Survey Member, infrastructure contributor for the Legacy analyses	2019-Present
Cosmology Large Angular Scale Surveyor Member	2017-2021
Primordial Inflation Explorer Master's thesis project	2016-2017

ACADEMIC TALKS

• Parallel session talk,	DESC collaboration meeting at ETH, 2024
• Invited seminar talk,	Kavli IPMU, 2024
• Invited seminar talk,	Institute for Theoretical Physics, Utrecht University, 2024
• Conference talk,	Starting the golden years: going strong after KiDS, Leiden, 2024
• Invited seminar 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 seminar talk,	Yunnan University, online, 2023
• Seminar 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 seminar talk,	Department of Astronomy, Tsinghua University, 2021
• Invited seminar 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 LMU (adjoint meeting), online, 2020
• Invited seminar talk,	Tsung-Dao Lee Institute, online, 2020
• Astronomy colloquium talk,	University of British Columbia, 2020
• Invited seminar talk,	Institut d'Astrophysique Spatiale, 2019
• Talks,	UBC-SFU-TRIUMF adjoint meetings, TRIUMF, 2017, 2019, 2020

VISITS, WORKSHOPS AND MEETINGS

• DESC collaboration meeting,	ETH, Zürich, Switzerland, 2024.07
• Visiting scholar,	Kavli IPMU, Kashiwa, Japan, 2024.06
• Visiting scholar,	ITP, Utrecht, the Netherlands, 2024.05
• DESC collaboration meeting,	SLAC, CA, USA, 2023.07

- KiDS busy weeks Institutes in Bochum, Leiden, Warsaw, Hull, and London, 2021-2023
- Future Science with CMB x LSS workshop YITP, Kyoto, Japan, 2023.04
- Tensions in cosmology conference Corfu, Greece, 2023.04
- Visiting scholar Department of Astronomy, THU, Beijing, China, 2021.09
- Visiting scholar Shanghai Astronomical Observatory, Shanghai, China, 2021.08
- CosmoGold IAP 2019 Workshop IAP, Paris, France, 2019.06
- Visiting scholar Institut d'Astrophysique 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 (high-school project): *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 (Xinhuan 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)

REFERENCES

- Dr Shahab Joudaki Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas
✉ shahab.joudaki@ciemat.es
- Prof Hendrik Hildebrandt Ruhr-University Bochum
✉ hendrik@astro.ruhr-uni-bochum.de
- Prof Ludovic van Waerbeke University of British Columbia
✉ waerbeke@physics.ubc.ca
- Prof Gary Hinshaw University of British Columbia
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