

CURRICULUM VITAE OF ZIANG YAN

yanza21@astro.ruhr-uni-bochum.de

Ruhr-Universität Bochum
Universitätsstr. 150
44801 Bochum
Germany
<https://yanzastro.github.io/>

EMPLOYMENT

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

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 Xuetao scholarship (Tsinghua)
2013-2015 Member Student of Tsinghua Xuetao Physics Program (Tsinghua)
2012 The outstanding academic scholarship of Zheng Geru (Tsinghua)

COMPUTER SKILLS

Languages	Python, Shell script, L ^A T _E X, C, IDL
Software & Tools	CAMB, Healpix, Treecorr, PolSpice, PYCCL, Tensorflow

REVIEWER/REFEREE

- Publications of the Astronomical Society of Japan
- Nature Astronomy

- Monthly Notices of the Royal Astronomical Society

INTERNATIONAL PROJECT INVOLVEMENT

Dark Energy Science Collaboration An international collaboration focusing on future cosmological survey	2021-Present
Ultraviolet Near- Infrared Optical Northern Survey An science collaboration between northern hemisphere cosmological observations	2021-Present
Chinese Space Station Telescope A proposed space telescope for cosmological surveys	2020-Present
Kilo-Degree Survey A large optical imaging survey in the Southern sky	2019-Present
Cosmology Large Angular Scale Surveyor A ground-based CMB polarization telescope	2017-2021
Primordial Inflation Explorer A proposed space mission to observe CMB polarization	2016-2017

ACADEMIC TALKS

- Parallel session talk, DESC collaboration meeting at SLAC, 2023
- Short talk and poster, YITP workshop, 2023
- Invited talk, Yunnan University, 2023
- Talk, CSST seminar, online, 2022
- Colloquium talk, AIRUB, Bochum, 2022
- Talk, KiDS busy week, Hull, UK, 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
- 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 meeting, SLAC, CA, USA, 2023.07
- KiDS busy weeks Multiple institutes in Leiden, Warsaw, Hull, and London, 2021-2023
- Future Science with CMB x LSS 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 (Selected featured courses)

Cosmology, Measurements in Physics, Group theory, High energy astrophysics

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)

Shiyang Zhang (PhD student) (2023-): *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 (Xinhua 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 for Chinese social media (2015-now, with $\sim 400\text{k}$ readings)
- Outreach activity with the Astronomy Club of High School Affiliated to Minzu University, Beijing (2015)
- Volunteer in stargazing activities (organized by the Astronomy Club of Tsinghua University, 2014, 2015)

LANGUAGE SKILLS

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