

CURRICULUM VITAE OF ZIANG YAN

yanza21@astro.ruhr-uni-bochum.de

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

RESEARCH

German Centre for Cosmological Lensing Postdoctoral 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 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, Fortran, L ^A T _E X, C, IDL
Software & Tools	CAMB, Healpix, Treecorr, PolSpice, PYCCL, Tensorflow

REVIEWER/REFEREE

- Publications of the Astronomical Society of Japan

INTERNATIONAL PROJECT INVOLVEMENT

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-Present
Primordial Inflation Explorer A proposed space mission to observe CMB polarization	2016-2017

ACADEMIC TALKS

- 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 telecon, 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
- Group seminar talk, Tsinghua Center for Astrophysics, 2016

VISITS, WORKSHOPS AND MEETINGS

- | | |
|---|---|
| • 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-present)

OUTREACH

Public talks

- The century of the Universe (Public talk in high schools, 2021)
- High energy physics vs cosmology (Online interview show, 2021, [link](#))
- A class in Cosmology (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)
- Introduction to Cosmology (Tsinghua Xuetang Program, 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

- Writing popular science articles for Chinese social media (2015-2020, with ~ 300 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)