

# CURRICULUM VITAE OF ZIANG YAN

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<https://yanzastro.github.io/>

## EMPLOYMENT

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<b>Ruhr-University Bochum</b> German Centre for Cosmological Lensing Fellow	2021.11-present
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## EDUCATION

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<b>University of British Columbia, Vancouver</b> 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
<b>University of British Columbia, Vancouver</b> MSc in Astronomy Supervisor: Prof. Gary Hinshaw	2015.07-2017.08
<b>Tsinghua University, Beijing</b> BSc in Physics Supervisor: Prof. Charling Tao	2011.09-2015.07

## COLLABORATIONS

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<b>Dark Energy Science Collaboration</b> In-kind contributor	2021-Present
<b>Ultraviolet Near-Infrared Optical Northern Survey</b> Member	2021-Present
<b>Kilo-Degree Survey</b> Member, infrastructure contributor for the Legacy analyses	2019-Present
<b>Cosmology Large Angular Scale Surveyor</b> Member	2017-2021
<b>Primordial Inflation Explorer</b> Master's thesis project	2016-2017

## COMPUTER SKILLS

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<b>Languages</b>	Python, Shell script, $\text{\LaTeX}$ , C, IDL
<b>Software</b>	Tools for measuring, modeling, and analyzing large-scale survey data; Tensorflow

## SERVICE

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

- News & views article author for Nature Astronomy: *Weighing galaxy clusters by laptop*
- Organizer of the journal club at GCCL

## HONORS AND AWARDS

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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)

## ACADEMIC TALKS

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| • 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

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| • 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

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### Teaching Assistant at UBC

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

### Mentorship

- Angela Zhou (high-school project): 2019-2021
- Susrestha Paul (Bachelor's project): 2024-
- Leon Gawlytta (Master's project) : 2023-
- Fabian Kampshoff (Master's project) : 2024-
- Shiyang Zhang (PhD project) : 2023-

## OUTREACH

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### Public talks

- The Century of the Universe (three public talks 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

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

## REFERENCES

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- 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  
✉ hinshaw@phas.ubc.ca