

# CURRICULUM VITAE OF ZIANG YAN

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## RESEARCH

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<b>German Centre for Cosmological Lensing</b> Postdoctoral 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

## 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)

## COMPUTER SKILLS

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<b>Languages</b>	Python, Fortran, L <sup>A</sup> T <sub>E</sub> X, C, IDL
<b>Software &amp; Tools</b>	CAMB, Healpix, Treecorr, PolSpice, PYCCL, Tensorflow

## REVIEWER/REFEREE

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- Publications of the Astronomical Society of Japan

## INTERNATIONAL PROJECT INVOLVEMENT

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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

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- 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

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|---|---|
| • 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 (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

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### 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  $\sim 300$ 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

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