

# Chieh-An LIN

Born December 10<sup>th</sup>, 1989  
Taiwanese & French citizenships

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## Professional experiences

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Since 2017, **research staff**, Institute for Astronomy, University of Edinburgh, UK

- \* Worked on data-driven methodologies for cosmology
- \* Design, implementation, & executions of large-scale simulations
- \* Active learning applied to photometric redshifts
- \* Variational inference applied to gravitational lensing
- \* Also worked on data features identification & characterization, requirement definition, benchmark setup, & code review
- \* Intensive programming in Python

2016–2017, **mandatory military and civil service**, Fenglin Veteran Hospital, Taiwan

- \* Social works, healthcare management, local community development, & software maintenance

2011, **R&D intern**, TST Engineering Ltd., Dublin

- \* Software development for 3D subsurface utilities mapping

2009–2010, **volunteer educator**, Apprentis d’Auteuil, France

## Education

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2013–2016, **PhD degree**, CEA Saclay, France

- \* Worked on cosmostatistics with gravitational lensing, including physical modelling, image processing, statistical inference, method comparisons, & data interpretation
- \* Intensive programming in C
- \* Award — International Collaborations Scholarship
- \* Award — AMX Doctoral Fellowship (declined)

2009–2013, **Diplôme d’ingénieur** (French Engineering Degree) & **MSc degree**, École Polytechnique, France

- \* Major in physics
- \* Award — Outstanding Investment (in campus life)
- \* First Prize — Team-based research project

2007–2009, **intensive preparatory program**, Lycée Louis le Grand, Paris

- \* Curriculum leading to competitive entrance exams to the French *Grandes Écoles*
- \* Dual major in mathematics & physics.

Until 2007, secondary education in Taiwan

- \* Second Prize - National High School Academic Competition in mathematics

## Soft skills by achievements

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### Leadership & management

- \* PhD student representative
- \* Draftee representative during civil service
- \* 3-year experience as seminar organizer
- \* Supervised a summer intern

### Critical writing

- \* Published 17 papers of which 4 first-author
- \* Published 1 outreach article in Mandarin
- \* Peer-reviewed 3 publications
- \* Edited and published 10 issues of a French-writing magazine promoting Taiwanese culture

### Public speaking

- \* 33 professional talks & 3 posters
- \* 3-year experience as teaching assistant
- \* 6-month experience as high school level tutor
- \* 4-month experience as outreach speaker in French

### Consulting

- \* Scientific translation consulting for the French version of *The Three-Body Problem* science fiction trilogy by Cixin Liu
- \* Scientific consulting for the outreach video *Dessine ta thèse 2 — La déformation des galaxies*

## Other skills

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Languages Mandarin (native), French (almost native), English (bilingual), Taiwanese (fluent), German (basic)  
Programming C, C++, Caml, Git, HTML/CSS, Java, Javascript,  $\LaTeX$ , Lisp, Python, Unix, VBA/Excel  
Hobbies Baking, bouldering, bridge, reading, road running