

Chieh-An LIN

Born December 10th, 1989
From Taichung, Taiwan

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Professional experiences

Since 2020, **systems engineer**, WPC Systems Ltd., Taipei area, Taiwan

- * R&D in embedded systems
- * Data analysis for predictive maintenance
- * IoT products & solutions for businesses
- * Industrial design rescue

2017–2020, **research staff**, Institute for Astronomy, University of Edinburgh, UK

- * Data-driven methodologies for cosmology
- * Design, implementation, & executions of large-scale simulations
- * Active learning applied to photometric redshifts
- * Variational inference applied to gravitational lensing
- * Data features identification, 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

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

Education

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

- * Cosmostatistics with gravitational lensing
- * 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

Leadership & management

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

Critical writing

- * Published 18 papers of which 4 first-author & 4 second-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

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