

# Ting-Yun CHENG (Sunny)

鄭婷筠

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## Education

School of Physics and Astronomy, University of Nottingham  
**PhD in Physics**

Nottingham,  
United Kingdom  
Oct 2017 — Oct 2020

- **Supervisor:** Prof. Christopher J. Conselice and Prof. Alfonso Aragón-Salamanca
- **Thesis:** The Narrative of Galaxy Morphological Classification Told Through Machine Learning

Institute of Astronomy, National Tsing Hua University  
**MSc in ASTRONOMY**

Hsinchu, Taiwan  
Sep 2014 — Aug 2016

- **Supervisor:** Prof. Ing-Guey Jiang
- **Thesis:** Investigating Dark Matter Distribution in Early-Type Galaxies

Department of Physics, National Taiwan Normal University  
**BSc in PHYSICS**

Taipei, Taiwan  
Sep 2010 — Jun 2014

## Work Experience

Department of Physics, Durham University  
**Postdoctoral Research Associate, Grade 7 — Annual Income: £38,474**

Durham,  
United Kingdom  
Nov 2020 — Now

## Teaching Experience

Department of Physics, Durham University

Durham, United Kingdom  
Nov 2020 — Now

- **Year 1 Laboratory Demonstrator**
  - Weekly laboratory demonstration
  - Formative and summative report marking and feedback
  - Oral presentation examination and feedback
- **Supervision: L4/Master projects.**
  - V. Desai, 2022/2023, Master of Physics
  - T. M. Hehir, 2022/2023, Master of Physics
  - S. M. William, 2021/2022, Master of Physics, Class I (Honours)
  - A. Lowe, 2021/2022, Master of Physics, Class II Division 1 (Honours)
- **Supervision: UG summer projects**
  - S. Bilacz, 2023 Jul-Aug, Physics

School of Physics and Astronomy, University of Nottingham

Nottingham, United Kingdom  
Oct 2017 — 2020

- **Coursework Marker, 2017–2020**
  - PHYS1001 (F31CO1): From Newton to Einstein
  - PHYS1004 (F31QP1): Quantitative Physics

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## Institute of Astronomy, National Tsing Hua University

*Hsingchu, Taiwan*

*Sep 2015— Aug 2016*

- **Teaching Assistant for Summer Program in Astrophysics**

- The program included one-week lectures of General Astronomy and the tutorial of astronomical softwares, two-days observation trip at the Lulin Observatory (Taiwan), data analysis, and seminars.

- **Teaching Assistant**

- Compulsory course — ASTR610000: Observational Astronomy
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## Department of Physics, National Tsing Hua University

*Hsingchu, Taiwan*

*Sep 2014— Aug 2016*

- **Teaching Assistant**

- Optional course — PHYS317000: Numerical Analysis
  - Optional course — PHYS241000: General Astronomy (I)
  - Optional course — PHYS242000: General Astronomy (II)
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## Observation Proposal

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- **Issac Newton Telescope/INS, Spain**, August 2023, 4 nights

## Awards and Grants

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### Dark Energy Survey Travel Grant

- Supporting excellent early career researchers to attend DES Fall collaboration meeting (\$1600)

*Fermilab*

*United States*

*Aug 2023*

### Discretionary Award

- For exceptional contribution within the role as Post Doctoral Research Associate to Durham University

*Durham University*

*United Kingdom*

*Jul 2023*

### Physics Department Award for Excellence

- For contributing extensively to the health and well-being of the astronomy group.

*Durham University*

*United Kingdom*

*Sep 2022*

### The Alan Turing Institute Post- Doctoral Enrichment Awards

- The award offer flexible funds to top researchers in data science to build on their current research and develop and grow activities. (£2000)

*The Alan Turing Institute*

*United Kingdom*

*2022*

### Graduate School Travel Prize

- The prize supports postgraduate students at the University of Nottingham to attend national/international conference/meeting. (£600)

*University of Nottingham*

*United Kingdom*

*Sep 2019*

### Conference/Meeting Travel Grants

- The prize supports researchers to attend national/international conference/meeting. (£300)

*Royal Astronomical Society*

*United Kingdom*

*Aug 2019*

### Kavli Student Fellow

- Stipend offers to the selected fellow of the Kavli Summer Program in Astrophysics. (Approximately \$2000)

*UC Santa Cruz*

*United States*

*Jul 2019 — Aug 2019*

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### Vice-Chancellor's Scholarship for Research Excellence (International)

- PhD living stipend and full tuition awarded to top international applicants. (£20,700+£12,000 annually)

*University of Nottingham  
United Kingdom  
2017 – 2020*

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### ASROC Special Award for Oral Presentation

- Awarded to an excellent postgraduate student at the Annual Meeting of the Astronomical Society in Taiwan (ASROC).

*Astronomical Society ROC  
Taiwan  
2016*

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## Academic Service

- **Referee for peer-review Journals:** MNRAS, ASCOM, ApJ, A&A, Phys. Rev, PASP, RASTI

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### Academic Enrichment

#### Dark Energy Survey (DES) Organisation

- i) **Co-convenor** of the *Galaxy evolution & QSO* working group (Dec 2022–)
- ii) Early Career Mentor-Mentee program (2023/2024): Mentor for undergraduate/graduate students in DES

#### Dark Energy Spectroscopic Instrument (DESI) Organisation

- i) DESI Education and Public Outreach (EPO) Committee (Aug 2023–)
- ii) Early Career Mentor-Mentee program (2023/2024): Mentor for undergraduate/graduate students in DESI

#### Astronomy and Computing (ASCOM)

- ASCOM is a peer-reviewed journal, published by Elsevier, that focuses on the broad area between astronomy, computer science, software development and information technology.
  - i) Early Career Researcher editorial board (November 2022–)
  - ii) **Co-editor** of a special edition: “*Machine Learning Techniques in Modern Astronomy*” (in preparation)

#### Taiwanese Young Researcher Association (TYRA)

- Project Tyra provides a platform for Taiwanese young researchers in diverse research fields to share their academic experience and develop collaborations with each other.
  - i) IT supports (April 2022–)
  - ii) Chair of weekly seminar (Oct 2022–)

#### Centre for Astronomy and Particle Theory, *University of Nottingham*

- i) **Organiser** of weekly lunch talk at CAPT (2019–2020)

#### Student Union, *Physics department, National Taiwan Normal University*

- i) Academic activity leader (2012-2013)
- ii) Orientation event organiser (2012)
- iii) Outreach activity leader of the Physics camp for 15-18y students (2011-2012)