

# Janet Ting-Wan Chen

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## Employment History

- 11.2015-present**     **Postdoctoral researcher**  
Max Planck Institute for Extraterrestrial Physics, Germany
- 05.2015-10.2015**     **Postdoctoral researcher**  
Argelander Institute for Astronomy, University of Bonn, Germany

## Education

- 2011-2015**     **Ph.D. in Astrophysics**  
Astrophysics Research Centre, Queen's University Belfast, UK.  
Thesis title: Host galaxies and late-time evolution of Super-Luminous Supernovae  
Supervisors: Prof. Stephen J. Smartt, Dr. Rubina Kotak
- 2006-2008**     **M.Sc. in Science**  
Graduate Institute of Astronomy, National Central University, Taiwan.  
Thesis title: The follow-up observations of type Ib/c supernovae  
Supervisor: Prof. Wing-Huen Ip
- 2002-2006**     **B.Sc. in Science**  
Department of Earth Sciences, National Central University, Taiwan.

## Teaching Experience

- 2016-2016**     **Supervision**  
Max Planck Institute for Extraterrestrial Physics, Germany.  
Project: Absolute lightcurves of superluminous supernovae  
Supervised a high school student Nina Zaindl for 2 weeks.
- 2011-2011**     **Lecturer**  
Wenshan Community College, Taichung City, Taiwan.  
Teaching course: Observational Astronomy  
Responsible for creating material and delivering lectures to forty students.
- 2006-2009**     **Teaching Assistant**  
National Central University, Taiwan.  
Teaching course: Introductory Astronomy, Knowing the Heavens, General Astronomy

## Awards

- 2016-2018**     **Humboldt Research Fellowship for Postdoctoral Researchers**  
Alexander von Humboldt Foundation, Germany.
- 2012-2015**     **PhD Studentship**  
European Research Council through Prof. Smartt.
- 2007**     **Outstanding Student Scholarship**  
National Central University, Taiwan.

- 2007 Academic Achievement Scholarship**  
Graduate Institute of Astronomy, National Central University, Taiwan.
- 2006 Dean's Award for Graduating Seniors**  
School of Earth Sciences, National Central University, Taiwan.
- 2006 First Place Winner of the Study of Earth System Science Project Competition**  
National Central University, Taiwan.
- 2005 Outstanding Student Scholarship**  
National Central University, Taiwan.
- 2004-2005 College Student Research Project Scholarship**  
National Science Council, Taiwan.
- 2004 Academic Achievement Award**  
Department of Earth Sciences, National Central University, Taiwan.

## Colloquia and Conference Contributed Talks

- 2016 Contributed Talk**  
Supernovae: The Outliers, Munich Institute for Astro- and Particle Physics, Germany.  
"The superluminous supernova LSQ14mo and its spatially resolved host galaxy"
- 2016 Contributed Talk**  
European Week of Astronomy and Space Science, Athens, Greece.  
"The rest frame UV spectra of the Superluminous Supernova OGLE15qz"
- 2016 Invited Speaker**  
NASA's Goddard Space Flight Center, USA.  
"A sub-solar metallicity is required for superluminous supernova progenitors"
- 2016 Contributed Talk**  
Mysterious Connection Between Superluminous Supernovae and Gamma-Ray Bursts,  
Space Telescope Science Institute, USA.  
"Low Metallicity Hosts of Type Ic Superluminous Supernovae  
- How Low Can They Go?"
- 2016 Contributed Talk**  
PESSTO Meeting, University of Southampton, UK.  
"Two superluminous supernovae from PESSTO: LSQ14mo + OGLE15qz"
- 2015 Contributed Talk**  
PESSTO Meeting, Institut d'Astrophysique de Paris, France.  
"Towards a sample- more host galaxies of SLSNe Ic"
- 2015 Invited Speaker**  
National Central University, Taiwan.  
"Host galaxies and late-time evolution of Super-Luminous Supernovae"
- 2015 Contributed Talk**  
PESSTO Meeting, University of Cambridge, UK.  
"LCOGT/PESSTO follow-up observations"
- 2014 Contributed Talk**  
Irish National Astronomy Meeting, Trinity College Dublin, Ireland.  
"Low metallicity hosts of super-luminous supernovae"
- 2014 Contributed Talk**  
National Astronomy Meeting, University of Portsmouth, UK.  
"Late-time evolution of super-luminous supernova PTF12dam and its  
extreme emission line host"

- 2014**      **Contributed Talk**  
 PESSTO Meeting, Queen's University Belfast, UK.  
 "Photometry follow-up for PESSTO" & "Late-time evolution of PTF12dam"
- 2014**      **Contributed Talk**  
 Supernovae near and far, Royal Astronomical Society, UK.  
 "Host galaxy environments of H-poor super-luminous supernovae"
- 2013**      **Invited Speaker**  
 National Tsing Hua University, Taiwan.  
 "Super-Luminous Supernovae: Giant Supernovae in Dwarf Hosts"
- 2013**      **Invited Speaker**  
 Universidad Andrés Bello, Chile.  
 "Super Luminous Supernovae: Giant explosions in Dwarf Galaxies"
- 2013**      **Contributed Talk**  
 UK-Chile workshop on supernova progenitors, Oxford, UK.  
 "Host galaxy environments of super-luminous supernovae"
- 2008**      **Contributed Talk**  
 East Asia Young Astronomers Meeting, Jiayuguan, China.  
 "Optical observation of the early light curves of type Ib/c supernova 2008D"
- 2005-2015**    **+ 9 Posters** at workshops & conferences.

## Observational Experience

### *Target Selection Roles*

Responsible for selecting targets for PESSTO classification. (3 nights/month)

**2015-present** NTT for PESSTO classification. PI: S. Smartt. (90 + 90 nights)

### *Coordinator Roles*

Responsible for scheduling targets, communicating with science PIs and checking data qualities.

**2014-2015**    1-m LCOGT for PESSTO follow-up. PI: S. Smartt. (100 hours).

**2013**        1.3-m SMARTS for PESSTO follow-up. PI: S. Smartt. (91 hours).

**2012**        2-m Faulkes North and South for PESSTO follow-up. PI: S. Smartt. (40 hours)

**2012-2013**    WHT for supernova observations. PI: M. Sullivan, S. Smartt. (5+ nights)

### *Observations*

**2013**        PESSTO observations at NTT (EFOSC2/SOFI), La Silla Observatory, Chile. (9 nights)

**2012-2013**    Supernova and galaxy observations at WHT (ISIS/ACAM), TNG (DOLORES/NICS), Roque de los Muchachos Observatory, Spain. (4 nights)

**2010**        Supernova observations at 1.8-m telescope, BOAO, Korea. (4 nights)

**2006-2008**    Supernova survey and follow-up at LOT, Lulin Observatory, Taiwan. (35 nights)

### *Data Reduction Experience*

I am experienced in reducing optical spectroscopic and photometric data with standard IRAF packages and/or dedicated pipelines (e.g. Gemini and the python-based PESSTO)

*Competitively Obtained Observing Time*

- 2016**      **As P.I.** VLT + Xshooter (3 nights)  
“Do superluminous supernovae come from magnetars?”
- 2016**      **As P.I.** ESO 2.2m + GROND (sharing 15% telescope time for ToO)  
“Classifying unknown supernovae with GROND”
- 2015**      **As P.I.** VLT + Xshooter (4.6 hours)  
“Unique opportunity for restframe UV spectra of the most luminous supernovae known”
- 2015**      **As P.I.** ESO 2.2m + GROND (2 nights)  
“Imaging the host galaxies of the superluminous supernovae”
- 2015**      **As Co-I.** Subaru + FOCAS (3.7 hours)  
“Revealing the environment of the unique superluminous supernova iPTF13ehe”
- 2006-2016**      **As Co-I.** LOT, SMARTS, VLT, LT, NTT (PESSTO, ePESSTO) and WHT.  
in supernova science projects.
- 2006-2009**      **As P.I.** LOT, Lulin Observatory, Taiwan (ToO+23 nights)  
“Supernova Observations”
- 2008**      **As P.I.** LOT, Lulin Observatory, Taiwan (10 nights)  
“Taiwan Supernovae Search”

## Outreach

- 1996-present**      **Volunteer**  
for organising public events, Taichung Astronomical Society, Taiwan.
- 2015**      **Invited Speaker**  
National Science Museum, Taiwan.  
“Little galaxies, big explosions- a mystery of super-luminous supernovae”
- 2015**      **Invited Speaker**  
Wenshan Community College, Taichung City, Taiwan.  
“A starlight dream at 55 degrees North latitude”
- 2015**      **Invited Speaker**  
National Taichung Girls’ Senior High School, Taiwan.  
“The dream of the Stars with you- a female astronomer”
- 2015**      **Invited Speaker**  
Wenshan Community College, Taichung City, Taiwan.  
“Stellar evolution and supernova explosions”
- 2015**      **Invited Speaker**  
Taichung Astronomical Society, Taiwan.  
“A starlight dream at 55 degrees North latitude” & “Total lunar eclipse”
- 2014-2015**      **Volunteer**  
ARC Outreach Committee, Queen’s University Belfast, UK.
- 2014**      **Assistant Astronomer**  
STFC Exhibition - Seeing the Universe, Queen’s University Belfast, UK.
- 2011-2013**      **Volunteer**  
for helping public talks, Irish Astronomical Association, Northern Ireland.
- 2013**      **Invited Speaker**  
Taichung Astronomical Society, Taiwan.  
“Super-luminous supernovae”
- 2013**      **Assistant Astronomer**  
BBC Stargazing LIVE event, Queen’s University Belfast, UK.

- 2012**      **Organizer**  
Jupiter Watch public event, Queen's University Belfast, UK.
- 2011**      **Invited Speaker**  
National Science Museum, Taiwan.  
"The life cycle of stars"
- 2011**      **Invited Speaker**  
Taichung Metropolitan Park, Taiwan.  
"Monthly sky gazing"
- 2011**      **Official Translator**  
for scientific talk, National Science Museum, Taiwan.
- 2009**      **Lecture Organizer**  
Asia-Pacific Youth Astronomy Camp, Chi-Tou, Taiwan.
- 2009**      **Chief Executive Officer**  
Comet Lulin Week, National Central University, Taiwan.
- 2008**      **Invited Speaker**  
Federation of Astronomical Societies, Taiwan.  
"Starlight dream"
- 2007**      **Invited Speaker**  
National Science Museum, Taiwan.  
"Taiwan Supernovae Survey"
- 2007**      **Co-Chief Executive Officer**  
Astronomy Camp, National Central University, Taiwan.
- 2004-2015**      **+ Published** Public Science Articles and Astronomy Pictures  
on magazines, text book and webpages.