

## Curriculum Vitae (updated 2023-12-10)

### **CHEUNG, Sze-leung**

Gender: M

Date of birth: Sep 8, 1981

Marital status: Married

Nationality: Chinese

Email: [cheungszeleung@gmail.com](mailto:cheungszeleung@gmail.com)

#### **Education**

Bachelor of Science, Math and Physics, The University of Hong Kong, Hong Kong, 2004

#### **Working Experiences:**

- **Founder**, Stardusts, 2022 - Present
- **Astronomical Communication Specialist**, National Astronomical Research Institute of Thailand, 2019 - 2022
- **International Outreach Coordinator**, IAU Office for Astronomy Outreach, National Astronomical Observatory of Japan, Japan, 2014 - 2019
- **Outreach Officer and Science Instructor**, Faculty of Science, The University of Hong Kong, Hong Kong, 2010 - 2014
- **Astronomy Officer**, Ho Koon Nature Education cum Astronomical Centre, Hong Kong, 2004 – 2010

#### **Major achievements:**

1. As the International Outreach Coordinator of the International Astronomical Union (IAU), I successfully established the IAU Office for Astronomy Outreach. I built connections with leaders in astronomy outreach from over 100 countries, creating a robust network of national outreach coordinators. This network facilitated over 5,000 activities and reached millions of people worldwide during the IAU100 celebration outreach activities. Additionally, I initiated the IAU exoplanet naming campaigns, engaging millions of members of the general public in the exploration of the night sky. Furthermore, I organized CAP2018, the largest conference for astronomy communicators to date, bringing together 446 participants from 53 countries to foster collaboration and knowledge sharing for the promotion of astronomy globally. Overall, my efforts have laid a strong foundation for the IAU outreach office and its network, paving the way for future developments.
2. As the Coordinator of the Hong Kong node for the International Year of Astronomy 2009 campaign, I successfully organized and coordinated 70 diverse events throughout the year, averaging about one event per week. One notable flagship project was a light-off program that focused on preserving the dark sky, prioritizing it over energy conservation. This initiative garnered participation from 3,500 buildings and reached millions of people. As a result of the event's impact, the government was compelled to address light pollution legislation.
3. During the early years, I built outreach and educational programs at the Ho Koon Astronomical Center, transforming it into a leading astronomy institute in Hong Kong. I designed and conducted five gifted education programs and provided intensive teacher training to over 500 educators. Upon

joining the University of Hong Kong, I contributed to the development of a non-specialized common core course for undergraduate students. Additionally, I established a student-led science outreach team, organized courses for high school students that utilized data obtained from remote-controlled telescopes.

#### Committee and Services:

- OC Member, **IAU C2 Communicating Astronomy with the Public**, 2021 – Present
- Member, **IAU Working Group on Star Names**, 2018 – Present
- Member, **IAU C1 Working Group Astronomy Education Research & Methods**, 2020 - Present
- Member, **IAU C2 Working Group Communicating Astronomy with the Public Conferences**, 2019 - Present
- Member, **Education Committee, International Dark-sky Association**, 2018 – 2020
- Project Coordinator, **Dark skies for all**, IAU100 Anniversary Global Activities, 2018 – 2020
- Project Coordinator, **NameExoWorlds II**, IAU100 Anniversary Global Activities, 2018 – 2019
- Member, **IAU100 Anniversary Task Force**, International Astronomical Union, 2017 - 2020
- Steering Committee Member, **International Year of Light and Light-based Technology 2015**, 2014 - 2016
- Member, **Task Force 3 Public Outreach**, IAU Office of Astronomy for Development, 2014 – 2019
- Co-chair, **IAU C2 Working Group Communicating Astronomy with the Public Conferences**, 2014 - 2019
- Member, **Executive Committee Working Group International Year of Light**, International Astronomical Union, 2014 - 2016
- Member, **Executive Committee Working Group Public Naming of Planets and Planetary Satellites**, International Astronomical Union, 2014-2016
- Organizer, **Comet ISON Observation Campaign**, 2013
- Judge, **Capture Science Video Competition**, HKU Science Outreach Team, 2013
- Judge, **Hong Kong Joint School Astronomy Competition**, Hong Kong Joint School Astronomical Society, 2013
- Organizer, **Light Pollution Science Roadshow**, 2013
- Organizer, **Science X Art Program**, The University of Hong Kong, 2013
- Member, **eLearning Enhancement Task Force**, The University of Hong Kong, 2012 – 2014
- Founder, **HKU Science Outreach Team**, The University of Hong Kong, 2012 - 2014
- Organizer, **Transit of Venus 2012 Science Roadshow**, 2011 - 2012
- Organizing Committee Member, **A Night at the Science Museum**, The University of Hong Kong Centenary, 2011
- Judge, **Second International Earth and Sky Photo Contest on Dark Skies Importance**, The World at Night, 2011
- Executive Working Group Member, **Organizing Committee for the Establishment of the International Organization of Professional Astronomy Communicators**, 2010 – 2012
- Judge, **Hong Kong Astronomy Project Competition**, Hong Kong University Students' Union Astronomy Club, 2009
- Editor, **Portal to the Universe**, International Year of Astronomy Global Cornerstone Project, International Astronomical Union, 2009 – 2014
- Regional Coordinator, **The World at Night Special Project**, International Year of Astronomy, International Astronomical Union, 2008 – 2010
- Task Group Member, **Galileo Teacher Training Program Global Cornerstone Project**, International Year of Astronomy, International Astronomical Union, 2008 – 2010

- Task Group Member, **Dark Sky Awareness Global Cornerstone Project**, International Year of Astronomy, International Astronomical Union, 2008 – 2010
- Secretary General, **International Year of Astronomy 2009 Hong Kong League**, 2007 – 2010
- Advisor, **Hong Kong Joint School Astronomical Society**, 2007 – 2014
- Judge, **Hong Kong Joint School Astronomy Competition**, Hong Kong Joint School Astronomical Society, 2006 – 2009

#### Selected Talks:

- (Invited) ***Astrotourism for building domestic tourism to support economy***, “A Dialogue on the Role of Astronomy in the COVID-19 Era webinar”, NARIT Thailand, 2020
- (Invited) ***Study of virus in astrobiology for science literacy***, “A Dialogue on the Role of Astronomy in the COVID-19 Era webinar”, NARIT Thailand, 2020
- ***Collaboration under the UNESCO International Training Centre of Astronomy network***, SEAN Meeting 2019, Singapore, 2019
- ***Dark Sky Activities in Asia-Pacific***, Light Pollution and Radio Interference Meeting, IAU GA 2018 satellite event, Vienna Austria, 2018
- (Invited) ***CAPjournal***, IAU GA 2018 Div C meeting Vienna Austria, 2018
- (Invited) ***Updates from the IAU Office for Astronomy Outreach***, IAU GA 2018 Div C meeting Vienna Austria, 2018
- (Invited) ***OAO Roles in the Global Arena***, SEAN Meeting 2017, Mandalay Myanmar, 2017
- (Invited) ***The Threats of LEDs to Astronomy and Dark sky campaign in other countries: experience & result***, Thai-Asia Forum, Chiang Mai Thailand, 2017
- (Invited) ***The Threats of LEDs to Astronomy and build a dark sky friendly future***, Aoraki Mackenzie Starlight Festival, Mt Cook New Zealand, 2017
- (Invited) ***Astronomy Communication and Informal Education***, ITCA Colloquium, Bangkok Thailand, 2017
- (Invited) ***OAO-SEAN partnership and the Total Solar Eclipse 2016***, SEAN Meeting 2015, Krabi Thailand, 2015
- (Invited) ***IAU web-based projects – NameExoWorlds & IAU Directory of World Astronomy***, dot Astronomy 2015, Sydney Australia, 2015
- (Invited) ***Astronomy Outreach as Profession***, East Asia Young Astronomers Meeting 2015, Taipei Taiwan, 2015
- (Invited) ***Light Pollution and the IAU Cosmic Light Activities***, Opening Ceremony of the International Year of Light 2015, Paris France, 2015
- Over 100 public lectures for public or schools in Hong Kong, Japan

#### Publications:

- **Cheung, S.-L.**, Tangmatitham, M., [A preliminary study of the impact of high school astronomy research-based learning in Thailand](#), Proceedings of the IAU S367 Education and Heritage in the Era of Big Data in Astronomy, p. 34-37, 2021
- **Cheung, S.-L.** et.al., [FM14: IAU’s Role in Global Astronomy Outreach - Meeting the Latest Challenges and Bridging Different Communities](#), Proceedings of the International Astronomical Union, Volume 14, Symposium A30: Astronomy in Focus XXX, p. 507-509, 2020
- **Cheung, S.-L.** et.al., [FM14 Session 1: Bridging the Astronomy Research and Outreach Communities - Recent Highlights, Emerging Collaborations, Best Practices and Support Structures](#), Proceedings of the International Astronomical Union, Volume 14, Symposium A30: Astronomy in Focus XXX, p. 510-511, 2020

- Sandu, O., **Cheung, S.-L.**, [Report on Communicating Astronomy with the Public \(CAP\) Conference 2018](#), Proceedings of the International Astronomical Union, Volume 14, Symposium A30: Astronomy in Focus XXX, p. 531-535, 2020
- **Cheung, S.-L.** et.al., [FM14 Session 3: The IAU National Outreach Coordinators \(NOCs\) Network – Coordinating and Catalyzing Astronomy Outreach Worldwide](#), Proceedings of the International Astronomical Union, Volume 14, Symposium A30: Astronomy in Focus XXX, p. 542-543, 2020
- **Cheung, S.-L.** et.al., [FM14 Session 4: Outreach Action and Advocacy in the Context of IAU's 2020-2030 Strategic Plan](#), Proceedings of the International Astronomical Union, Volume 14, Symposium A30: Astronomy in Focus XXX, p. 544-545, 2020
- Govender, K., **Cheung, S.-L.** et.al., [Synergies among the IAU Offices](#), Proceedings of the International Astronomical Union, Volume 14, Symposium A30: Astronomy in Focus XXX, p. 563-564, 2020
- **Cheung, S.-L.** et. al., Updates from the IAU Office for Astronomy Outreach, Proceedings of Communicating Astronomy with the Public 2018, p 104, 2018
- [IAU Brochure on Light Pollution](#), 2018, with translation into 9 languages.
- Christensen, L. L. et. al. including **Cheung, S.-L.**, [Division C commission 55: Communicating astronomy with the public](#), Proceedings of the International Astronomical Union, Volume 11 Issue T29A: Transactions IAU, p 209-218, 2016
- **Cheung, S.-L.**, [OAD Task Force 3 Discussions](#), Proceedings of the International Astronomical Union Volume 11 Issue A29A: Astronomy in Focus, p 403-404, 2016
- Green, R., et al. including **Cheung, S.-L.**, Cosmic Light, Proceedings of the International Astronomical Union Volume 11 Issue A29A: Astronomy in Focus, p.549, 2016
- Montmerle T., et al. including **Cheung, S.-L.**, [Executive committee working group: Public naming of planets and planetary satellites](#), Proceedings of the International Astronomical Union, Volume 11 Issue T29A: Transactions IAU, p 539-548, 2016
- Fang, X.S., et al. including **Cheung, S.-L.**, [Magnetic activity of the spotted dwarf AP149 in the  \$\alpha\$  Persei open cluster](#), [Research in Astronomy and Astrophysics](#), Vol. 10 No. 3, p. 253–265, 2010
- Popular Book - Hubble 17 Years of Discovery (Simplified Chinese Expanded Edition), Shanghai Translation Press, 2010
- **Cheung, S.-L.**, Social Impact of the Shaw Prize in Astronomy, Proceedings of Communicating Astronomy with the Public 2007, 2007
- Popular Book - Hubble 17 Years of Discovery (Traditional Chinese Expanded Edition), World Press Hong Kong, 2007

#### Conference/Workshop organizations (selection):

- **Communicating Astronomy with the Public 2022**, Sydney Australia, SOC member, 2021-2022
- **Communicating Astronomy with the Public 2021**, virtual, SOC member, 2019-2021
- **IAU General Assembly FM14 – “IAU’s role on global astronomy outreach, the latest challenges and bridging different communities”**, Vienna Austria, SOC co-chair, 2018
- **Communicating Astronomy with the Public 2018**, Fukuoka Japan, SOC co-chair, 2018
- **Communicating Astronomy with the Public 2016**, Medellin Colombia, SOC co-chair, 2016
- **Globe at Night – Sky brightness Monitoring Network workshop**, Tokyo Japan, SOC co-chair, 2015
- **1st East Asian Astronomical Education and Outreach Workshop**, Ulaanbaatar Mongolia, SOC member, 2014
- **Communicating Astronomy with the Public 2013**, Warsaw Poland, SOC member, 2013
- **IAU General Assembly SpS17 “Light Pollution: Protecting Astronomical Sites and Increasing Global Awareness through Education”**, Beijing China, LOC member, 2012
- **Communicating Astronomy with the Public 2011**, Beijing China, SOC member, 2011

#### Editorial Board:

- **Communicating Astronomy with the Public Journal**, International Astronomical Union, Editor-in-chief (2017 – 2019)

#### Selected Grants:

- “You are Galileo!” Training at Myanmar, Japanese Foundation of Promotion of Astronomy, **JPY 240,000 (~USD 2,100)**, 2017
- Education support for Total Solar Eclipse at Indonesia, Japanese Foundation of Promotion of Astronomy, **JPY 261,000 (~USD 2,300)**, 2016
- Comet ISON Public Outreach, HKU Knowledge Exchange Impact Project, **HKD 100,000 (~USD 13,000)**, 2013-2014
- Transit of Venus Public Outreach, HKU Knowledge Exchange Impact Project, **HKD 70,000 (~USD 9,000)**, 2012-2013
- Astronomy Program, Hong Kong Academy for Gifted Education, **HKD 150,000 (~USD 20,000)**, 2012
- Development Project on “Astronomy and Space Science” in the Senior Secondary Physics Curriculum, Quality Education Fund (HK), **HKD 1,716,500 (~USD 221,000)**, 2009
- Using Computerized Telescope to Facilitate Learning and Teaching of ‘Astronomy and Space Science’ in Senior Secondary Physics [3 rounds], Hong Kong Government, **HKD 1,707,384 (~USD 218,300)**, 2008-2009

#### Awards:

- **Dark Sky Defender Award 2018**, The International Dark-Sky Association, 2018 - for establishing the Globe at Night – Sky Brightness Monitoring Network that connect 33 stations worldwide and collected over 55 million data in 4 years.
- **2015 WebAward for Outstanding Achievement in Web Development**, WebAwards, 2015 - for IAU Directory of World Astronomy website
- **Faculty Knowledge Exchange Award 2012**, The University of Hong Kong, 2012 - for sharing knowledge with the youth