

Curriculum Vitae

Tetsuya Hashimoto

Associate professor

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Profile

I am an assistant professor at the National Chung Hsing University with a research interest in 'transient objects including gamma-ray bursts and fast radio bursts and their host galaxies'.

*Nationality: Japan

*Gender: Male

*Date of birth:

*Marital Status: Married

29th November 1980 (43 years old)

Education and qualifications

2005-2008 The University of Tokyo

Ph.D. Department of Astronomy

Dissertation: Spectroscopic Analysis of Narrow Line Regions in Active Galactic Nuclei. Supervisor: Professor Masanori Iye.

2003-2005 The University of Tokyo

M.S. Department of Astronomy

Dissertation: Spectroscopic observations of NGC7319

1999-2003 Kyushu University

B.S. Department of Physics

Dissertation: Data reduction and analysis of supernovae observed with Bisei observatory.

Employment

2024 – present Associate professor, National Chung Hsing University

2021 – 2024 Assistant professor, National Chung Hsing University

2019 – 2021 CICA Fellow, National Tsing Hua University

2016 – 2019 ALMA Fellow, National Tsing Hua University

2011 – 2016 Postdoctoral Fellow of TMTJ project office,
National Astronomical Observatory of Japan

2008 – 2011 Postdoctoral Fellow, Kyoto University

Award

- [113年度「興大之光」殊榮](#) at NCHU (2024)
- 113年度優聘教師 at NCHU (2024)
- [113年度優秀年輕學者懷璧獎獎助計畫得獎](#) at NCHU (2024)
- [The best postdoc paper award in Taiwan 2020 selected by the Ministry of Science and Technology of Taiwan](#) (2021) ([109年度博士後研究人員學術研究](#))

獎)

- National Tsing Hua University International Paper Bonus (2021)
- [The best oral presentation award at the international conference](#), 'NEP conference 2020: Multi-Wavelength Astronomy Collaboration towards the New Era with Deep Survey Data' (2020)
- National Tsing Hua University International Paper Bonus (2020)
- [The best oral presentation award at the international conference](#), 'Future Science with Multi-Wavelength Data' (2019)

Research grant

- (PI) Taiwan NSTC three-year project grant + one postdoc
'The origin of fast radio bursts and their cosmological applications with BURSTT, CHIME, and FAST', 2024-2027
Grant budget: NTD 5,562,000 + NTD 2,808,923
- (PI) Inviting an international scholar to Taiwan (短訪計畫 邀請國際科技人士短期訪問), 2024
Grant budget: NTD 142,726 from NSTC of Taiwan
- (PI) Inviting an international scholar to Taiwan (短訪計畫 邀請國際科技人士短期訪問), 2023
Grant budget: NTD 20,000 from NSTC of Taiwan
- (PI) Ministry of Education (MoE), TEEP Program, 'Uncovering the origin of mysterious fast radio bursts with machine learning', 2023
Grant budget: NTD 54,000 from MoE of Taiwan
- (PI) Grants for the international conference, '[Fast Radio Bursts Symposium 2023 in Taiwan](#)'
Grant budget: NTD 100,000 from NSTC of Taiwan (國內舉辦國際學術研討會)
Grant budget: NTD 90,000 from National Chung Hsing University
Grant budget: NTD 140,000 from PRPC of Taiwan
- (Co-I) Taiwan MOST Vanguard grant (serving as [BURSTT](#)'s Project Scientist)
'Bustling Universe Radio Survey Telescope in Taiwan (BURSTT)--台灣宇宙電波爆廣角監測實驗', 2022-2026
I wrote the scientific part of this proposal.
Grant budget: NTD 10,000,000 for the second year (2023)
Grant budget: NTD 10,000,000 for the first year (2022)
- (PI) Taiwan MOST three-year project grant + one postdoc
'Origins of mysterious fast radio bursts to be revealed by the revolutionary CHIME data and Tomo-e Gozen collaboration', 2021-2024
Grant budget: NTD 5,137,000 + NTD 2,426,800
Final report: [Open to the public](#)
- (Co-I) Taiwan MOST three-year project grant
'大學聯盟ALMA科學創進中心第五階段'
Grant budget: NTD 4,500,000 for the third year (2022)
Grant budget: NTD 4,500,000 for the second year (2021)
- (Co-I) Grant for the international conference, '[Future Science with Multi-Wavelength Data](#)', from the Ministry of Education in Taiwan, 2019
Grant name: 教育部國際司 107 年第 2 期「補助辦理國際學術教育交流活動」
Grant budget: NTD 40,059
- (Co-I) Grant for the international conference, '[Future Science with Multi-Wavelength Data](#)', from the Ministry of Science and Technology in Taiwan, 2019

Grant name: 科技部自然司物理研究推動中心補助國內舉辦物理相關研討會
Grant budget: NTD 145,000

Reviewer

- Nature Astronomy (2024)
- Research in Astronomy and Astrophysics referee (2023)
- Magellan telescope proposal review (2023)
- Dutch Research Council (NWO) Talent Programme proposal review (2023)
- NSTC project proposal reviewer (2023)
- JCMT proposal reviewer (2022)
- Monthly Notices of the Royal Astronomical Society referee (2022-2024)
- The Astronomical Journal referee (2021)
- ALMA proposal reviewer (2021-2024)
- MMT/Magellan telescopes proposal reviewer (2021)
- Subaru telescope proposal reviewer (2019-2021)
- The Astrophysical Journal referee (2020)
- Astronomy & Astrophysics referee (2019,2024)
- Telescope Access Program (China) reviewer (2019-2020)
- Journal of the Korean Astronomical Society referee (2018)

Supervision

- Mr. Tsung-Ching Yang (Master-->Ph.D. student, National Chung Hsing University)

Master's thesis: Constraining the Hubble constant with scattering in host galaxies of fast radio bursts (passed in 2024).

Tsung-Ching Yang, [Tetsuya Hashimoto](#), Tzu-Yin Hsu, Tomotsugu Goto, Chih-Teng Ling, Simon C.-C. Ho, Ece Kilerci, '[Constraining the Hubble Constant with Scattering in Host Galaxies of Fast Radio Bursts](#)', accepted for publication in Astronomy & Astrophysics, (2024). He won the NSTC scholarship, 113年「博士生研究獎學金試辦方案」-「國科會核配類」and awards, including (i) 2023 NCHU physics research award (佳作), (ii) 2024 Science Competition 2nd Award (2024科技論文競賽頒獎 2nd), and (iii) Best poster award at the conference, ASROC 2024 (2024天文學年會).

- Mr. Kai-Chun Huang (Master's student, National Chung Hsing University)

Master's thesis: A New Constraint on the Hubble Constant Placed by Scattering in Host Galaxies of Fast Radio Bursts (passed in 2023).

- Mr. Bjorn Jasper R. Raquel (Master's student, University of Philippines)

Bjorn Jasper R. Raquel, [Tetsuya Hashimoto](#), Tomotsugu Goto, Bo Han Chen, Yuri Uno, Tiger Hsiao, Seong Jin Kim, and Simon C.-C. Ho, '[Machine Learning Classification of Repeating FRBs from FRB121102](#)', Monthly Notices of the Royal Astronomical Society, Volume 524, Issue 2, pp.1668-1691.

- I co-supervise Mr. Simon C.-C. Ho (PhD, The Australian National University)

Simon C.-C. Ho, [Tetsuya Hashimoto](#), Tomotsugu Goto, Yu-Wei Lin, Seong Jin Kim, Yuri Uno, and Tiger Y.-Y. Hsiao, '[Future Constraints on Dark Matter with Gravitationally Lensed Fast Radio Bursts Detected by BURSTT](#)', the Astrophysical Journal, Volume 950, Issue 1, id.53, 7 pp., (2023). He won the best oral presentation award at the Fast Radio Bursts Symposium 2023 in Taiwan.

- Ms. Yuri Uno (PhD, National Chung Hsing University)
Yuri Uno, [Tetsuya Hashimoto](#), Tomotsugu Goto, Simon C.-C. Ho, Tzu-Yin Hsu, and Ross Burns, '[Upper limits on transmitter rate of extragalactic civilizations placed by Breakthrough Listen observations](#)', Monthly Notices of the Royal Astronomical Society, Volume 522, Issue 3, pp.4649-4653, (2023). She won **the best poster award at the 2022 RIKEN-NCHU JOINT SYMPOSIUM**, **the best oral presentation award at the Fast Radio Bursts Symposium 2023 in Taiwan**, **2023 Science Competition 3rd Award (2023科技論文競賽頒獎 3rd)**, and **年輕學者創新研發成果選拔優等獎**.

- Ms. Tzu-Yin Hsu (Bachelor, National Tsing Hua University)
Tzu-Yin Hsu, [Tetsuya Hashimoto](#), Bunyo Hatsukade, Tomotsugu Goto, Po-Ya Wang, Chih Teng Ling, Simon C.-C. Ho, and Yuri Uno, '[The molecular gas kinematics in the host galaxy of non-repeating FRB 180924B](#)', Monthly Notices of the Royal Astronomical Society, Volume 519, Issue 2, pp.2030-2034 (2023). She won **the best poster award at 2023 Annual Meeting of the Physical Society of Taiwan** and competitively won **大專學生研究計畫** from July 2023 to February 2024. She was awarded **Wu Chien-Shiung Scholarship (吳健雄獎學金)**, Dec 2023.

- Mr. Decmend Ling (Master, National Taiwan University)
Decmend Fang-Jie Ling, [Tetsuya Hashimoto](#), Shotaro Yamasaki, Tomotsugu Goto, Seong Jin Kim, Simon C.-C. Ho, Tiger Y.-Y. Hsiao, and Yi Hang Valerie Wong, '[Detection Rate of Fast Radio Bursts in the Milky Way with BURSTT](#)', Monthly Notices of the Royal Astronomical Society, Volume 518, Issue 1, pp.1398-1406, (2023).

- Mr. Kaustubha Sen (Master, National Tsing Hua University)
Kaustubha Sen, [Tetsuya Hashimoto](#), Tomotsugu Goto, Seong Jin Kim, Bo Han Chen, Daryl Joe D. Santos, Simon C. C. Ho, Alvina Y. L. On, Ting-Yi Lu, and Tiger Y.-Y. Hsiao, '[Constraining violations of the Weak Equivalence Principle Using CHIME FRBs](#)', Monthly Notices of the Royal Astronomical Society, Volume 509, Issue 4, pp.5636-5640, (2022). Featured by 'Medium', '[Testing Einstein's Work Using Observations of Fast Radio Bursts](#)', 5 Dec. (2021).

- Mr. Bo Han Chen (Master, Seoul National University)
Bo Han Chen, [Tetsuya Hashimoto](#), Tomotsugu Goto, Bjorn Jasper R. Raquel, Yuri Uno, Seong Jin Kim, Tiger Y.-Y. Hsiao, and Simon C.-C. Ho, '[Classifying a frequently repeating fast radio burst, FRB20201124A, with unsupervised machine learning](#)', Monthly Notices of the Royal Astronomical Society, Volume 521, Issue 4, pp.5738-5745, (2023). He won **the best poster award at the NTHU physics poster competition 2022**.

Bo Han Chen, [Tetsuya Hashimoto](#), Tomotsugu Goto, Seong Jin Kim, Daryl Joe D. Santos, Alvina Y. L. On, Ting-Yi Lu, and Tiger Y.-Y. Hsiao, '[Uncloaking hidden repeating fast radio bursts with unsupervised machine learning](#)', Monthly Notices of the Royal Astronomical Society, Volume 509, Issue 1, pp.1227-1236, (2022). He won **the Physical Society of Taiwan 大專生優良論文獎得獎 2021 and 2022** .

- Mr. Cossas, K.-W. Wu (Master, National Tsing Hua University)
Cossas, K.-W. Wu, [Tetsuya Hashimoto](#), Tomotsugu Goto, Ting-Yi Lu, Alvina Y. L. On, Daryl Joe D. Santos, Seong Jin Kim, Simon C.-C. Ho, Tiger Y.-Y. Hsiao, and

Chih-Teng Ling, 'A possible ALMA counterpart of FRB121102', submitted to Monthly Notices of the Royal Astronomical Society, (2022).

- Ms. Poya Wang (Master, National Tsing Hua University) and Ms. Yi Hang Valerie Wong (PhD, University of Colorado Boulder)

Yi Hang Valerie Wong, Poya Wang, [Tetsuya Hashimoto](#), Toshinobu Takagi, Tomotsugu Goto, Seong Jin Kim, Cossas K.-W. Wu, Alvina Y. L. On, Daryl Joe D. Santos, Ting-Yi Lu, Ece Kilerci-Eser, Simon C.-C. Ho, and Tiger Y.-Y. Hsiao, '[ALMA detections of \[OIII\] and \[CII\] emission lines from A1689-zD1 at z=7.13](#)', the Astrophysical Journal, Volume 929, Issue 2, id.161, 8 pp (2022). Ms. Poya Wang won **the best poster prize** at the Physical Society of Taiwan meeting in 2022 and **the Physical Society of Taiwan 大專生優良論文獎 2022**.

- Mr. Tiger Y.-Y. Hsiao (PhD, Johns Hopkins University) and Mr. Jia-Yuan Chang

Tiger Y.-Y. Hsiao, [Tetsuya Hashimoto](#), Jia-Yuan Chang, Tomotsugu Goto, Seong Jin Kim, Chien-Chang Ho, Daryl Joe D. Santos, Ting-Yi Lu, Alvina Y. L. On, and Ting-Wen Wang, '[Far-infrared star-formation rates of six GRB host galaxies with ALMA](#)', Monthly Notices of the Royal Astronomical Society, Volume 496, Issue 4, pp.4405-4419 (2020).

Tiger Yu-Yang Hsiao, Tomotsugu Goto, [Tetsuya Hashimoto](#), Daryl Joe D. Santos, Alvina Y. L. On, Ece Kilerci-Eser, Yi Hang Valerie Wong, Seong Jin Kim, Cossas K.-W. Wu, Simon C.-C. Ho, and Ting-Yi Lu, '[A Dyson Sphere around a black hole](#)', Monthly Notices of the Royal Astronomical Society, Volume 506, Issue 2, pp.1723-1732, (2021). Featured by [ZME SCIENCE](#), [Uncover Reality](#), [SPACEREF](#), [Yahoo France](#), [maxisciences.com](#), [INVERSE](#), [Science Magazine](#), and more than **40 media**. The **top 5%** of all research attention scores ever tracked by [Altmetric](#).

Based on these publications, Mr. Tiger Y.-Y. Hsiao won **the best poster prize** in the Physical Society of Taiwan annual meeting (2020), **the Dean's Award** (2020), **the best students' oral presentation award** in an international conference 'NEP conference 2020', the TPS undergraduate **best thesis award** in 2020, **the best poster prize** at the Physical Society of Taiwan meeting in 2022, and **the Phi Tau Phi honorary membership** in Taiwan 2022 etc.

- Mr. Chih-Teng Ling (Master, National Tsing Hua University)

Chih-Teng Ling, [Tetsuya Hashimoto](#), and Tomotsugu Goto, '[What determines the maximum stellar surface density of galaxies?](#)', Monthly Notices of the Royal Astronomical Society, Volume 496, Issue 1, pp.864-869 (2020). He won **the best poster prize** at the Astronomical Society of the Republic of China annual meeting (2019) and the TPS undergraduate **best thesis award** in 2020 based on this work. He also won **the best poster prize** at the Physical Society of Taiwan meeting in 2022.

- Mr. Ravi Chaudhary to publish

[Tetsuya Hashimoto](#), Ravi Chaudhary, Kouji Ohta, Tomotsugu Goto, Francois Hammer, Albert K. H. Kong, Ken'ichi Nomoto, and Jirong Mao, '[Why Are Some Gamma-Ray Bursts Hosted by Oxygen-rich Galaxies?](#)', The Astrophysical Journal, Volume 863:95 (14pp), (2018) August 10.

- I co-supervised Mr. Ting-Chi Huang to publish Huang, Ting-Chi; Goto, Tomotsugu; [Tetsuya Hashimoto](#); Oi, Nagisa; Matsuhara, Hideo, '[An extinction-free AGN selection by 18-band SED fitting in mid-infrared in the AKARI NEP deep field](#)', Monthly Notices of the Royal Astronomical Society, Volume 471, Issue 4, p.4239-4248. (2017).

- I co-supervised Dr. Koki Terao to publish Terao, K.; Nagao, T.; [Hashimoto, T.](#); Yanagisawa, K.; Matsuoka, K.; Toba, Y.; Ikeda, H.; Taniguchi, Y., '[Near-infrared Spectroscopy of Nearby Seyfert Galaxies: Is There Evidence for Shock Excitation in Narrow-line Regions?](#)', The Astrophysical Journal, Volume 833, Issue 2, article id. 190, 12 pp. (2016).

Seminar

I organize a Timely Talk per Thirty days organized by Tetsuya (TTTT) seminar. I have invited more than 30 speakers to the TTTT so far. The TTTT includes science talks and discussions with the speakers. Through the TTTT, Dr. Yi-Han Wu, who was a Ph.D. student in the NTHU/loA, got an opportunity to jump into the BICEP project as a postdoc in the US. Students are encouraged to actively ask questions about science and academic life abroad, contributing to the NCHU activity.

I also would like to organize an astro-ph class at NCHU. The astro-ph class is a class to read/share new papers and briefly catch the essence of each paper. New papers appear every day regardless of the semester. It is important, especially for young students and postdocs to continuously keep the activity.

Conference SOC/LOC

- LOC of '[2024 International Symposium on Advanced and Sustainable Science and Technology](#)', 11-12 Sep., (2024)
- SOC chair of '[Localization of fast radio bursts in Taiwan 2024](#)', held in Taiwan, 24-27 June, (2024)
- LOC of '[International Science Master Lecture](#)' by Prof. Takaaki Kajita, 15 April, (2024)
- LOC of '[International Symposium on Advanced and Sustainable Science and Technology](#)', 11-12 Sep., (2023)
- LOC of '[The Symposium for Early Career Astronomers \(SECA\) III](#)', held in Taiwan, 17-19 March, (2023)
- PI/SOC/LOC of '[Fast Radio Bursts Symposium 2023 in Taiwan](#)', held in Taiwan (onsite+online), 8-10 Feb., (2023)
- SOC/LOC of '[2022 NCHU Astrophysics Symposium](#)', 2 Sep, (2022)
- Session chair and SOC, '[NEP conference 2020: Multi-Wavelength Astronomy Collaboration towards the New Era with Deep Survey Data](#)', held in Taiwan+online, 25-27 Nov., (2020)
- Session chair of '[the annual meeting of the Physical Society of Taiwan](#)', held in Taiwan, 5-7 Feb., (2020)
- SOC and LOC, '[Future Science with Multi-Wavelength Data](#)', held in Taiwan, 24-26 June, (2019)
- SOC and LOC, '[Science with AKARI NEP infrared data](#)', held in Taiwan, 27-28 June, (2018)
- LOC, 'Astronomy in the TMT Era', Tokyo, Japan, 16 Oct., (2013)
- LOC, 'Deciphering the Ancient Universe with Gamma-Ray Bursts', Kyoto, Japan, 22 April, (2010)

Research techniques

I am experienced and competent in observational research, data reduction, and analysis, especially in optical and near-infrared wavelengths. I also have experience with submillimeter/radio observations with the ALMA, FAST, ATCA, and the 45-m radio telescope in NAOJ Nobeyama Radio Observatory. I mainly use Python, IDL, C language, and IRAF for data analysis, and experience with Fortran, PHP, and CGI scripts.

Skills

Cambridge English, English as a Medium of Instruction (EMI) Skills since 2022

Teaching class

General Physics (English)
Statistical Mechanics (English)
General Physics Experiments (English)
General Astronomy (English)
Explosions in the Universe (English)
Basic Physics Experiments (English)

Summer students/interns

- 2024 NSTC, IIPP Program

Mr. Bjorn Jasper R. Raque: [Uncovering the origin of mysterious fast radio bursts with machine learning](#)

Mr. Hiroto MAsaoka: [Instrumentation and pipeline of the BURSTT project](#)

- 2024 TAOvA Summer Student Program

Mr. William Chang: [Statistical Approaches to the Mysterious Origin of Fast Radio Bursts](#)

Mr. Howard Chuang: [Statistical Approaches to the Mysterious Origin of Fast Radio Bursts](#)

- 2023 TAOvA Summer Student Program

Ms. Tzu-Yin Hsu: [Galaxy Number Densities around Fast Radio Bursts](#)

Ms. Leah Ya-Ling Lin: [Machine-learning Classification of FRB 20121102A using Arecibo Data](#)

- 2023 Ministry of Education, TEEP Program

Mr. Bjorn Jasper R. Raque: Uncovering the origin of mysterious fast radio bursts with machine learning

- 2022 UCAT Summer Student Program

Ms. Tzu-Yin Hsu: [The ALMA view of galaxies hosting mysterious fast radio bursts](#)

- 2020 UCAT Summer Student Program

Mr. Geng-Wei Wu: [ALMA observations of mysterious fast radio bursts \(presentation\)](#)

- 2019 UCAT Summer Student Program

Mr. Yu-Yang Hsiao and Mr. Jia-Yuan Chang: [Measuring cosmic star-formation history using ALMA data of Gamma-Ray Burst host galaxies \(presentation 1, presentation 2\)](#)

- 2018 Ministry of Education, TEEP Program

Mr. Ravi Chaudhary: [Why Are Some Gamma-Ray Bursts Hosted by Oxygen-rich Galaxies?](#)

Membership

The International Astronomical Union
The Astronomical Society of the Republic of China
The Physical Society of Taiwan
The Astronomical Society of Japan

Publication list

I have 92 publications including first-author/co-authored refereed papers, invited review articles, and non-refereed proceedings. 9 papers were featured by a total of more than 50 media. I had 46 invited talks in English and 42 oral presentations at conferences in English. Five representative papers are marked by ☆. Papers based on my supervision are marked by ★.

Refereed first-author papers

1. ☆[Tetsuya Hashimoto](#), Tomotsugu Goto, Bo Han Chen, Simon C.-C. Ho, Tiger Y.-Y. Hsiao, Yi Hang Valerie Wong, Alvina Y. L. On, Seong Jin Kim, Ece Kilerci-Eser, Kai-Chun Huang, Daryl Joe D. Santos, and Shotaro Yamasaki, '[Energy functions of fast radio bursts derived from the first CHIME/FRB catalogue](#)', Monthly Notices of the Royal Astronomical Society, Volume 511, Issue 2, pp.1961-1976, (2022).
2. ☆[Tetsuya Hashimoto](#), Tomotsugu Goto, Daryl Joe D. Santos, Simon C.-C. Ho, Ece Kilerci-Eser, Tiger Y.-Y. Hsiao, Yi Hang Valerie Wong, Alvina Y. L. On, Seong Jin Kim, and Ting-Yi Lu, '[Upper limits on Einstein's weak equivalence principle placed by uncertainties of dispersion measures of fast radio bursts](#)', Physical Review D, Volume 104, Issue 12, article id.124026, (2021). Featured by 'Medium', '[Testing Einstein's Work Using Observations of Fast Radio Bursts](#)', 5 Dec. (2021).
3. [Tetsuya Hashimoto](#), Tomotsugu Goto, Ting-Yi Lu, Alvina Y. L. On, Daryl Joe D. Santos, Seong Jin Kim, Ece Kilerci Eser, Simon C.-C. Ho, Tiger Y.-Y. Hsiao, and Leo Y.-W. Lin, '[Revealing the cosmic reionisation history with fast radio bursts in the era of Square Kilometre Array](#)', Monthly Notices of the Royal Astronomical Society, Volume 502, Issue 2, pp.2346-2355, (2021). [I won the best talk award at the international conference. 'NEP conference 2020: Multi-Wavelength Astronomy Collaboration towards the New Era with Deep Survey Data' \(2020\).](#)
4. ☆[Tetsuya Hashimoto](#), Tomotsugu Goto, Alvina Y. L. On, Ting-Yi Lu, Daryl Joe D. Santos, Simon C.-C. Ho, Seong Jin Kim, Ting-Wen Wang, and Tiger Y.-Y. Hsiao, '[No redshift evolution of non-repeating fast radio burst rates](#)', Monthly Notices of the Royal Astronomical Society, Volume 498, Issue 3, pp.3927-3945, (2020). This paper was selected for [a press release by the Astronomical Society of Japan](#), 15 March 2021. Featured by more than 8 media including [產經新聞網](#), [AstroArts](#), [產經新聞\(Japan\)](#), [Newspicks](#) etc. [I won the best postdoc paper award 2020 in Taiwan selected by the Ministry of Science and Technology of Taiwan.](#)
5. ☆[Tetsuya Hashimoto](#), Tomotsugu Goto, Alvina Y. L. On, Daryl Joe D. Santos, Simon C.-C. Ho, Ting-Yi Lu, Ting-Wen Wang, Seong Jin Kim, and Tiger Y.-Y. Hsiao, '[Fast radio bursts to be detected with the Square Kilometre Array](#)', Monthly Notices of the Royal Astronomical Society, Volume 497, Issue 4, pp.4107-4116, (2020). Featured by 'astrobit.es', '[Focusing Squarely on FRBs with the Square Kilometre Array](#)', 27 Aug. (2020).
6. [Tetsuya Hashimoto](#), Tomotsugu Goto, Ting-Wen Wang, Seong Jin Kim, Simon C.-C. Ho, Alvina Y. L. On, Ting-Yi Lu, and Daryl Joe D. Santos, '[Luminosity-duration relations and luminosity functions of repeating and non-repeating fast radio bursts](#)', Monthly Notices of the Royal Astronomical Society, Volume 494, Issue 2, pp.2886-2904, (2020). The **top 10%** of all research attention scores ever tracked by [Altmetric](#).

7. [Tetsuya Hashimoto](#), Tomotsugu Goto, Rieko Momose, Chen-Chang Ho, Ryu Makiya, Chia-Ying Chang, and Seong Jin Kim, '[A young galaxy cluster in the oldest Universe](#)', Monthly Notices of the Royal Astronomical Society, Volume 489, Issue 2, p.2014-2029, (2019). [I won the best talk award at the international conference, 'Future Science with Multi-Wavelength Data' \(2019\)](#).
8. ☆[Tetsuya Hashimoto](#), Tomotsugu Goto, Ting-Wen Wang, Seong Jin Kim, Yi-Han Wu, and Chen-Chang Ho, '[Luminosity-duration Relation of fast radio bursts](#)', Monthly Notices of the Royal Astronomical Society, Volume 488, Issue 2, p.1908-1916, (2019). Featured by 'New Scientist', '[Mysterious signals from space could teach us how dark energy works](#)', 8 Aug. (2019).
9. [Tetsuya Hashimoto](#), Bunyo Hatsukade, Tomotsugu Goto, Seong Jin Kim, Kouji Ohta, Tohru Nagao, Albert K. H. Kong, Kouichiro Nakanishi, and Jirong Mao, "[Star-formation rates of two GRB host galaxies at \$z \sim 2\$ and a \[CII\] deficit observed with ALMA](#)", Monthly Notices of the Royal Astronomical Society, Volume 488, Issue 4, p.5029-5041 (2019).
10. ★[Tetsuya Hashimoto](#), Ravi Chaudhary, Kouji Ohta, Tomotsugu Goto, Francois Hammer, Albert K. H. Kong, Ken'ichi Nomoto, and Jirong Mao, '[Why Are Some Gamma-Ray Bursts Hosted by Oxygen-rich Galaxies?](#)', The Astrophysical Journal, Volume 863:95 (14pp), (2018) August 10.
11. [Hashimoto Tetsuya](#), Tomotsugu Goto, and Riseko Momose, '[Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies](#)', Monthly Notices of the Royal Astronomical Society, Volume 475, p.4424-4433. (2018)
12. [Hashimoto, Tetsuya](#); Perley, Daniel A.; Ohta, Kouji; Aoki, Kentaro; Tanaka, Ichi; Niino, Yuu; Yabe, Kiyoto; Kawai, Nobuyuki, '[THE STAR FORMATION RATE AND METALLICITY OF THE HOST GALAXY OF THE DARK GRB 080325 AT \$z = 1.78\$](#) ', The Astrophysical Journal, 806:250 (9pp), (2015) June 20.
13. [Tetsuya Hashimoto](#), Tohru Nagao, Kenshi Yanagisawa, Kenta Matsuoka, and Nobuo Araki, '[Spatially Extended \[P II\]1.188 \$\mu\$ m and \[Fe II\]1.257 \$\mu\$ m Emission Lines Observed with OAO/ISLE](#)', Publications of the Astronomical Society of Japan, (2011) Vol.63, No.1, pp.L7--L11
14. [T. Hashimoto](#), K. Ohta, K. Aoki, I. Tanaka, K. Yabe, N. Kawai, W. Aoki, H. Furusawa, T. Hattori, M. Iye, K. S. Kawabata, N. Kobayashi, Y. Komiyama, G. Kosugi, Y. Minowa, Y. Mizumoto, Y. Niino, K. Nomoto, J. Noumaru, R. Ogasawara, T.-S. Pyo, T. Sakamoto, K. Sekiguchi, Y. Shirasaki, M. Suzuki, A. Tajitsu, T. Takata, T. Tamagawa, H. Terada, T. Totani, J. Watanabe, T. Yamada, and A. Yoshida, "["Dark" GRB 080325 in a Dusty Massive Galaxy at \$z \sim 2\$](#) ", The Astrophysical Journal, 719:378–384, (2010) August 10. Featured by more than 4 media including Asahi Shinbun, Yomiuri Shinbun, Nihon Keizai Shinbun, and Kyoto Shinbun.
15. [Tetsuya Hashimoto](#) and Iye Masanori, 'Spectroscopic Analysis of Narrow Line Regions in Active Galactic Nuclei', Ph.D. thesis in University of Tokyo, (2008).

Refereed co-authored papers

16. Taewan Kim, Ho Seong Hwang, Simon C.-C. Ho, Denis Burgarella, Tomotsugu Goto, [Tetsuya Hashimoto](#), Woong-Seob Jeong, Seong Jin Kim, Takamitsu Miyaji, Nagisa Oi, Hyunjin Shim, Jubee Sohn, Hyunmi Song, Narae Hwang, and Byeong-Gon Park, 'Machine-learning based Photometric Redshifts for the Galaxies in the North Ecliptic Pole Wide field: catalogs of spectroscopic and photometric redshifts', submitted to the Astrophysical Journal, (2024).
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 83. Misawa Toru, Kashikawa Nobunari, Ohya Youichi, [Tetsuya Hashimoto](#), Iye Masanori, '[Near-Infrared Search for C IV Absorption Counterparts along the Lines of Sight to Pair Quasars](#)', The Astronomical Journal, Volume 131, Issue 1, pp. 34-40 (2006).

Invited review article (originally Japanese, translated here)

84. [Tetsuya Hashimoto](#), Tomotsugu Goto, Rieko Momose, "[The fourth most important parameter of star-forming galaxies](#)", EUREKA, the astronomical herald, the astronomical society of Japan, (2018), p.693-701, Oct.
85. [Tetsuya Hashimoto](#), "[Performance of TMT and the evaluation](#)", TMT special issue, the astronomical herald, the astronomical society of Japan, (2014), p.694-700, Dec.
86. Tetsuya Hashimoto, "Mysteries of dark gamma-ray bursts", Modern Science Dictionary, Big Moon Inc., (2014), p.22-25
87. [Tetsuya Hashimoto](#) and Ohta Kouji, "[The origin of a dark gamma-ray burst observed with Subaru](#)", EUREKA, the astronomical herald, the astronomical society of Japan, (2011), p.193-200, Apr.

Non-refereed proceedings

88. [Tetsuya Hashimoto](#), Ravi Chaudhary, Kouji Ohta, Tomotsugu Goto, Francois Hammer, Albert K. H. Kong, Ken'ichi Nomoto, and Jirong Mao, '[Why are some gamma-ray bursts hosted by oxygen-rich galaxies?](#)', Yamada Conference LXXI: Gamma-ray Bursts in the Gravitational Wave Era 2019 held in Yokohama in Japan (published 2020).
89. [Hashimoto Tetsuya](#), Tomotsugu Goto, and Riseko Momose, '[Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies](#)', The Cosmic Wheel and the Legacy of the AKARI archive: from galaxies and stars to planets and life, held in Tokyo, 17-20 Oct., (2017).
90. [Hashimoto Tetsuya](#), Tomotsugu Goto, and Riseko Momose, '[Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies](#)', Galaxy Evolution Across Time, Proceedings of a conference held 12-16 June, (2017) in Paris.
91. Taddia, F. and [Tetsuya Hashimoto](#) et al., '[iPTF discovery of recent core-collapse SNe](#)', The Astronomer's Telegram, #6538, (2014).
92. [Hashimoto, T.](#); Ohta, K.; Aoki, K.; Tanaka, I.; Yabe, K.; Kawai, N.; Niino, Y, '["Dark" GRB 080325 in a Dusty Massive Galaxy at z=2](#)', Progenitors and Environments of Stellar Explosions, XXVIth IAP Annual Colloquium, held in Paris, 28 June - 2 July, (2010).

Invited talk (English)

1. 'Mysterious fast radio bursts and the new radio telescope in Taiwan: BURSTT', [The](#)

- [diversity in the Universe explored by high-energy physics](#), University of Tokyo at Kashiwa in Japan, 11-13 Nov., 2024
2. 'Mysterious fast radio bursts and the new radio telescope in Taiwan: BURSTT', [2024 International Symposium on Advanced and Sustainable Science and Technology](#), NCHU in Taiwan, 11-12 Sep., 2024
 3. 'Mysterious fast radio bursts and the new radio telescope in Taiwan: BURSTT', [seminar at the Department of Astronomy/University of Tokyo](#), Tokyo in Japan, 1st August 2024
 4. 'Mysterious fast radio bursts and the new radio telescope in Taiwan: BURSTT', [NAOJ Science Colloquium](#), online, 3rd July, 2024
 5. 'Fast Radio Bursts', [Workshop of NCTS-TCA Summer Student Program 2024](#), NTU in Taiwan, 2nd July, 2024
 6. 'Mysterious fast radio bursts and the new radio telescope in Taiwan: BURSTT', [2024 Collaborative Seminar between UNAM and TAOvA](#), online, 29 May 2024
 7. 'Fast radio bursts as cosmic probes', [NCU IoA Colloquium](#), NCU in Taiwan, 17 May 2024
 8. 'Fast radio bursts and their mysterious origin', [Applied Physics seminar at TungHai University](#), 8 Dec, 2023
 9. 'Mysterious Fast Radio Bursts', [NYCU high energy physics seminar](#), NYCU in Taiwan, 3 Oct. 2023
 10. 'Mysterious fast radio bursts', [International Symposium on Advanced and Sustainable Science and Technology](#), NCHU in Taiwan, 11 Sep. 2023
 11. 'Fast radio bursts and their mysterious origin', Mini-Workshop on AGN/Galaxy Evolution, Yuan-Ze University, Taiwan, 11 Aug. 2023
 12. 'Towards uncovering the origin of fast radio bursts and future prospects in Taiwan', seminar at North-West University, South Africa, 5 May 2023
 13. 'Towards uncovering the origin of fast radio bursts and future prospects in Taiwan', [LeCosPA seminar](#), 24 April 2023
 14. 'Fast radio bursts', [The 2nd NCTS/UCAT/NTHU International Astronomy Winter School](#), 31 Jan. to 4 Feb. 2023
 15. 'Recent observational research progress on fast radio bursts', [Taiwanese Theoretical Astrophysics Workshop II](#), 25 Nov. 2022
 16. 'My experiences in astrophysics and career path', ASTROPHYSICS TALK FOR JUMPSTART 2022, 7 Nov. 2022
 17. 'The origin of fast radio bursts implied from the cosmic stellar-mass density evolution', [Cross-Strait Forum on Radio Astronomy](#), 24 Oct. 2022
 18. 'Fast radio bursts and a new FRB telescope in Taiwan', [NTHU/IoA colloquium](#), 14 Oct. 2022
 19. 'Fast Radio Bursts', [NCTS-TCA Summer Student Program 2022 workshop](#), online, 5 July 2022
 20. 'The origin of fast radio bursts implied from the cosmic stellar-mass density evolution', [the YITP FRB workshop 2022](#), Yukawa Institute for Theoretical Physics, Kyoto University, 7 June 2022
 21. 'Upper limits on Einstein's weak equivalence principle placed by uncertainties of dispersion measures of fast radio bursts', [JGRG webinar](#) organized by Japanese Universities, 30 March 2022
 22. 'The origin of fast radio bursts and key sciences to be addressed in future', Rizal Technological University, 24 Feb. 2022
 23. 'The origin of fast radio bursts and key sciences to be addressed', '[2022 Annual Meeting of the Physical Society of Taiwan](#)', 24 Jan. 2022

24. 'Research on fast radio bursts at NCHU', '[The Symposium for Early Career Astronomers \(SECA\) II](#)', National Dong Hwa University in Taiwan, 15 Jan. 2022
25. '[Implications for the origin of fast radio bursts and testing general relativity](#)', Institute of Physics, Academia Sinica in Taiwan, 5 Nov. 2021
26. 'Implications for the origin of fast radio bursts and testing general relativity', the Department of Physics, National Sun Yat-sen University in Taiwan, 4 Nov. 2021
27. '[Energy functions of fast radio bursts derived from the first CHIME/FRB catalogue](#)', '2021 Taiwan FRB Face-to-Face (F2F) Workshop', LeCosPA in Taiwan, 23 Oct. 2021
28. '[Origins of fast radio bursts and their future applications](#)', Yunnan University in China, 8 April 2021
29. '[Origins of fast radio bursts and their future applications](#)', the CHIME/FRB journal club organized by the University of Toronto in Canada, 25 March 2021
30. '[Origins of fast radio bursts and their future applications](#)', National Central University in Taiwan, 12 March 2021
31. '[No redshift evolution of non-repeating fast radio burst rates](#)', online lecture at the Northeastern University, 7 Dec. 2020
32. '[Fast radio bursts in the era of Cherenkov Telescope Array](#)', 'The extreme Universe viewed in very-high-energy gamma rays 2020', online conference, 3-4 Dec. 2020
33. '[No redshift evolution of non-repeating fast radio-burst rates](#)', Institute of Astronomy and Astrophysics, Academia Sinica in Taiwan, 30 Sep. 2020
34. '[No redshift evolution of non-repeating fast radio-burst rates](#)', the Kavli Institute for the Physics and Mathematics of the Universe/the University of Tokyo in Japan, 15 Sep. 2020
35. '[Recent three discoveries from NTHU cosmology group](#)', the Institute of Astronomy, the National Central University in Taiwan, 29 Nov. 2019
36. 'Recent three discoveries from NTHU cosmology group', the Institute of Astronomy, the University of Tokyo at Mitaka in Japan, 24 Oct. 2019
37. 'FRB cosmology and [CII] detection of a GRB host galaxy', the Department of Astronomy, the University of Tokyo at Hongo in Japan, 15 Oct. 2019
38. 'Three discoveries from NTHU/Taiwan cosmology group', National Centre for Nuclear Research in Poland, 1 Oct. 2019
39. 'Recent three discoveries from NTHU cosmology group', Academia Sinica in Taiwan, 6 Sep. 2019
40. 'A new parameter in the fundamental metallicity relation of star-forming galaxies', National Astronomical Observatory of Japan, 11 Oct. 2018
41. 'A new parameter in the fundamental metallicity relation of star-forming galaxies', the University of Tokyo in Japan, 4 Oct. 2018
42. 'Why Are Some Gamma-Ray Bursts Hosted by Oxygen-rich Galaxies?', Academia Sinica in Taiwan, 5 Sep. 2018
43. 'Why Are Some Gamma-Ray Bursts Hosted by Oxygen-rich Galaxies?', Yunnan Observatory in China, 8 Aug. 2018
44. 'Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies', National Central University in Taiwan, 27 Oct. 2017
45. 'Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies', National Astronomical Observatory of Japan, 12 Oct. 2017
46. 'Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies', Academia Sinica in Taiwan, 9 Aug. 2017

Conference talk (English)

47. 'Simultaneous observations of an active repeater FRB 20240114A with Lulin One-meter Telescope and FAST', [Fast Radio Burst 2024](#), Thailand, 4-8 Nov. (2024)
48. 'Expected science cases with BURSTT', [Localization of fast radio bursts in Taiwan 2024](#), National Ilan University in Taiwan, 24 June, (2024)
49. 'Expected science cases with BURSTT', [2024 Annual Meeting of the Physical Society of Taiwan](#), NCU in Taiwan, 24 Jan, (2024)
50. '[Repeating rates of 36 fast radio bursts selected by machine learning](#)', [the 2023 Scientific Assembly of the Astronomical Society of the Republic of China](#), National Sun Yat-sen University, 19 May, (2023)
51. '[Detection rate of fast radio bursts in the Milky Way with BURSTT](#)', [2023 Spring Annual meeting of the Astronomical Society of Japan](#), online, 15 March, (2023)
52. 'Galaxy number densities around fast radio bursts', [2023 Annual Meeting of the Physical Society of Taiwan](#), Tainan in Taiwan, 16 Jan., (2023)
53. '[The origin of fast radio bursts implied from the cosmic stellar-mass density evolution](#)', '[2022 ASROC Annual Meeting](#)', Chiayi in Taiwan, 1st Oct., (2022)
54. 'Fast Radio Bursts', '[2022 NCHU Astrophysics Symposium](#)', online, 2 Sep., (2022)
55. '[The origin of fast radio bursts implied from the cosmic stellar-mass density evolution](#)', '[GALAXY EVOLUTION WORKSHOP 2021](#)', online, 9 Feb., (2022)
56. '[Revealing the cosmic reionization history with FRBs in the era of SKA](#)', '[FRB 2021](#)', online, 28 July - 8 August, (2021)
57. '[Revealing the cosmic reionisation history with fast radio bursts in the era of Square Kilometre Array](#)', 'East Asia SKA Workshop 2021', online, 28 May, (2021)
58. '[Revealing the cosmic reionisation history with fast radio bursts in the era of Square Kilometre Array](#)', '[A precursor view of the SKA Sky](#)', online, 16 March, (2021)
59. '[Origins of fast radio bursts and their future applications](#)', 'YITP International Molecule-type Workshop Fast Radio Bursts: A Mystery Being Solved?', Kyoto in Japan and online, 17 Feb., (2021)
60. '[Revealing the cosmic reionisation history with fast radio bursts in the era of Square Kilometre Array](#)', 'NEP conference 2020: Multi-Wavelength Astronomy Collaboration towards the New Era with Deep Survey Data', Taipei in Taiwan, 27 Nov., (2020). **I won the best talk award.**
61. '[Revealing the cosmic reionisation history with fast radio bursts in the era of Square Kilometre Array](#)', 'The first stars and first galaxies', online conference, 18 Nov., (2020)
62. '[Fast radio bursts to be detected with the Square Kilometre Array](#)', 'Technology for Next Generation Space-Earth Environmental Radio Science', online conference, 26 Aug., (2020)
63. 'Star-formation rates of two GRB host galaxies at $z \sim 2$ and a [C II] deficit observed with ALMA', 'The annual meeting of the Astronomical Society of Japan, ALMA/Subaru special session', online material, 17 Mar., (2020)
64. '[Star-formation rates of two GRB host galaxies at \$z \sim 2\$ and a \[C II\] deficit observed with ALMA](#)', 'the EAALMA workshop', held at ASIAA in Taiwan, 19 Feb., (2020)
65. '[Luminosity-duration relation fast radio bursts](#)', 'The annual meeting of the Physical Society of Taiwan', held at the PingTung University in Taiwan, 6 Feb. (2020)
66. '[A young galaxy cluster in the old Universe](#)', 'Galaxy Formation and Evolution Across Cosmic Time', held at Taipei in Taiwan, 11 Dec., (2019)
67. '[One step toward understanding cosmic re-ionization: absorption tests with a new QSO we discovered at \$z=6.6\$](#) ', 'Subaru 20th anniversary', held at Kona/Hawaii in the USA, 19 Nov., (2019)

68. '[A young galaxy cluster in the old Universe](#)', 'Subaru 20th anniversary', held at Kona/Hawaii in the USA, 19 Nov., (2019)
69. 'Why are some gamma-ray bursts hosted by oxygen-rich galaxies?', 'Yokohama GRB 2019', held at Yokohama in Japan, 1 Nov., (2019)
70. '[A young galaxy cluster in the old Universe](#)', 'Future Science with Multi-Wavelength Data', held in Taiwan, 25 June, (2019). **I won the best talk award.**
71. 'A young galaxy cluster in the old Universe', 'The Annual Meeting of the Astronomical Society of the Republic of China (Taiwan)', 17 May, (2019)
72. '[Why Are Some Gamma-Ray Bursts Hosted by Oxygen-rich Galaxies?](#)', 'Subaru-EAO High-z Galaxy Workshop 2019', 1 Feb., (2019)
73. 'Why Are Some Gamma-Ray Bursts Hosted by Oxygen-rich Galaxies?', '[10th DTA symposium Stellar deaths and their diversity](#)', 22 Jan., (2019)
74. '[The 4D Fundamental Metallicity Relation of SFGs](#)', '[Science with AKARI NEP infrared data](#)', 27 June, (2018)
75. 'Why Are Some Gamma-Ray Bursts Hosted by Oxygen-rich Galaxies?', 'The Annual Meeting of the Astronomical Society of the Republic of China (Taiwan)', 20 May, (2018)
76. 'Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies', 'The Annual Meeting of the Physical Society of the Republic of China', 25 Jan, (2018)
77. 'Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies', 'The Cosmic Wheel and the Legacy of the AKARI archive: from galaxies and stars to planets and life', held in Tokyo, 17-20 Oct., (2017).
78. 'Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies', 'Asia-Pacific Regional IAU meeting', Taipei in Taiwan, 3-7 July, (2017)
79. 'Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies', 'Galaxy Evolution Across Time', Paris in France, 12-16 June, (2017)
80. 'The 4th Most Important Parameter of the Fundamental Metallicity Relation of Star-forming Galaxies', 'The Annual Meeting of the Astronomical Society of the Republic of China (Taiwan)', 19 May, (2017)
81. 'The star formation rate and metallicity of the host galaxy of the dark GRB 080325 at $z=1.78$ ', 'The Annual Meeting of the Physical Society of the Republic of China (Taiwan)', 17 Jan., (2017)
82. 'THE STAR FORMATION RATE AND METALLICITY OF THE HOST GALAXY OF THE DARK GRB 080325 AT $z = 1.78$ ', 'GRB workshop 2015', RIKEN, WAKO, Japan, 31 August, (2015)
83. 'Study on GRB host galaxies in the TMT era', 'Astronomy in the TMT Era', Tokyo, Japan, 16 Oct., (2013)
84. '"Dark" GRB 080325 in a Dusty Massive Galaxy at $z\sim 2$ ', 'Progenitors and Environments of Stellar Explosions, Paris', France, 28 June, (2010)
85. '"Dark" GRB 080325 in a Dusty Massive Galaxy at $z\sim 2$ ', 'Deciphering the Ancient Universe with Gamma-Ray Bursts', Kyoto, Japan, 22 April, (2010)
86. 'Large extinction in a dark GRB 080325', 'The Shocking Universe: Gamma-Ray Bursts Science in the Agile, Glast & Swift Era', Venice, Italy, 14 Sep., (2009)
87. 'Spectroscopic Analysis of Narrow Line Regions in Active Galactic Nuclei', 'OXFORD-COSMOCT Workshop on The Interface between Galaxy formation and AGN', Messina, Italy, 19 May, (2008)

Invited talk (Japanese, English translation)

88. 'Mysterious fast radio bursts', seminar organized by TOPPAN Holdings Inc, Japan (online), 17 Oct (2023)
89. '[Towards uncovering the origin of fast radio bursts and future prospects of LST](#)', LST seminar (online), 18 May (2023)
90. '[The origin of fast radio bursts and key sciences to be addressed in future](#)', Japan Radio Astronomy Forum (online), 8 March (2022)

Conference talk (Japanese, English translation)

91. '[Upper limits on Einstein's weak equivalence principle placed by uncertainties of dispersion measures of fast radio bursts](#)', ASJ annual meeting, Japan (online), 2 March (2022)
92. '[Revealing the cosmic reionization history with fast radio bursts in the era of Square Kilometre Array](#)', ASJ annual meeting, Japan (online), 14 Sep. (2021)
93. '[The origins of fast radio bursts](#)', ASJ annual meeting, Japan (online), 17 March (2021)
94. 'No redshift evolution of non-repeating fast radio burst rates', High energy astrophysics workshop, online, 14 and 17 Dec. (2020)
95. '[Luminosity functions of repeating and non-repeating fast radio bursts](#)', ASJ annual meeting, Japan, 9 Sep., (2020)
96. '[Luminosity-Duration Relation of Fast Radio Bursts: a new tool for precision cosmology](#)', ASJ annual meeting, Japan, 13 Sep., (2019)
97. '[Why Are Some Gamma-Ray Bursts Hosted by Oxygen-rich Galaxies?](#)', ASJ annual meeting, Japan, 21 Sep. (2018)
98. 'Iron Abundances of Long GRB host galaxies', 'Innovation of Gamma-Ray Bursts', Japan, 21 Nov. (2017)
99. '[Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies](#)', ASJ annual meeting, Japan, 11 Sep. (2017)
100. '[Development of TMT Exposure Time Calculator](#)', ASJ annual meeting, Japan, 12 Sep. (2013)
101. '[Near-infrared spectroscopy of a GRB 080325 host galaxy](#)', ASJ annual meeting, Japan, 19 Sep. (2012)
102. '[Near-infrared spectroscopy of NGC 1068 with OAO/ISLE](#)', ASJ annual meeting, Japan, 23 Sep. (2010)
103. '[A large extinction for a "dark" GRB080325 in a dusty massive galaxy](#)', ASJ annual meeting, Japan, 27 March (2010)
104. '[Near-infrared integral-field spectroscopy of NGC 7319](#)', ASJ annual meeting, Japan, 11 Sep. (2008)
105. '[Ionization diagnostics of AGN narrow-line regions based on SDSS](#)', ASJ annual meeting, Japan, 24 March (2008)
106. '[Ionization mechanism of AGN narrow-line regions with SDSS data](#)', ASJ annual meeting, Japan, 20 Sep. (2006)
107. '[Ionization mechanism of narrow-line regions in Seyfert galaxy NGC 7319](#)', ASJ annual meeting, Japan, 8 Oct. (2005)
108. '[A relationship between radio ejecta and ionized-gas outflow in NGC 7319](#)', ASJ annual meeting, Japan, 22 Sep. (2004)
109. '[The current status of follow-up observations of supernovae](#)', ASJ annual meeting, Japan, 25 March (2003)

Public talk (Japanese, English translation)

110. 'Fast radio bursts', a Symposium between Bicchu-Nishi Shoukoukai and the Nantou dark-sky community, Taipei, 15 Nov., (2024)
111. 'Astronomy', senior high school students campus visit at NCHU, 8 July (2024)
112. 'Mysterious fast radio bursts and Taiwanese new radio telescope, BURSTT', Asahi culture center Yokohama (online), 30 Sep. (2023)
113. 'A new mystery in the Universe, fast radio bursts', [the Bisei Observatory 30th anniversary/Ibara City 70th anniversary memorial symposium](#), Japan, 9 Sep. 2023
114. 'Astronomy and future prospects', the Bisei junior high school seminar, Japan, 8 Sep. 2023
115. '[Gamma-Ray Bursts and Mysterious Fast Radio Bursts](#)', Asahi culture center in Yokohama, Kanagawa, Japan, 1st April (2023)
116. 'Origins of mysterious fast radio bursts', 'Tenpla' tea chat, online, 21 March (2021)
117. 'Supernovae and Gamma-Ray Bursts in TMT era', Asahi culture centre in Yokohama 'The new Universe to be opened by a 30m telescope, TMT', Kanagawa, Japan, 17 May (2014)
118. 'From Subaru to 30m telescope, TMT', Starry sky summit, 60th anniversary of Bisei telescope, Okayama, Japan, 10 Nov. (2013)
119. 'Gamma-Ray Bursts, the most energetic explosion in the Universe', NAOJ/Subaru telescope public talk 'Hunting of the biggest explosion in the Universe', Tokyo, Japan, 9 June (2013)
120. 'Violent galaxy', Asahi culture centre in Yokohama 'The active Universe', Kanagawa, Japan, 16 June (2012)
121. 'Active galactic nuclei and supermassive black hole', 'Ibara astronomical course', 2 Nov. (2008)

Conference poster

122. 'Machine Learning Classification of Repeating FRBs from FRB121102', [2024 Annual Meeting of the Physical Society of Taiwan](#), NCU in Taiwan, 26 Jan., (2024)
123. 'Energy functions of fast radio bursts derived from the first CHIME/FRB catalogue', '[Fast Radio Bursts 2023](#)', India (online), 6 Nov., (2023)
124. 'Search for mysterious radio signals in the Universe', '[2023 RIKEN-NCHU JOINT SYMPOSIUM](#)', NCHU in Taiwan, 12 Sep., (2023)
125. 'Detection Rate of Fast Radio Bursts in the Milky Way with BURSTT', [2023 Annual Meeting of the Physical Society of Taiwan](#), Tainan in Taiwan, 16 Jan., (2023)

Press release

1. '[Japan's first Fast Radio Burst detection](#)', 12 Jan. (2023), University of Tokyo
2. '[The first detection of a fast radio burst in Japan](#)', 12 Jan. (2023), National Chung Hsing University
3. '[Toward unveiling the cosmic mystery of Fast Radio Bursts](#)', 28 Nov. (2022), University of Tokyo
4. '[Toward unveiling the cosmic mystery of Fast Radio Bursts](#)', 28 Nov. (2022), National Chung Hsing University
5. '[謎の天体「高速電波バースト」の正体](#)', 15 Mar. (2021), 日本天文学会2021年春季年会記者会見
6. '[すばる望遠鏡 謎のダークガンマ線バーストの正体に迫る](#)', 21 Jul. (2010), 京都大学
7. '[すばる望遠鏡 謎のダークガンマ線バーストの正体に迫る](#)', 20 Jul. (2010), 国立天文台

Media (selected)

1. [‘新たな研究から、宇宙人を探すには銀河系の遙か彼方に目を向ける必要が示される’](#), 23 April, (2023), TEXAL
2. [‘New Paper Makes a Bold Plan for Where to Look For Aliens: Far Beyond Our Galaxy’](#), 22 April, (2023), INVERSE
3. [‘Looking for potential radio technosignatures from extragalactic sources’](#), 18 April, (2023), PHYS.ORG
4. [‘How Many Intergalactic Radio Stations Are Out There?’](#), 17 April (2023), UNIVERSE TODAY
5. [‘日本で初めて高速電波バーストを検出 JAXAの64mパラボラアンテナを使用’](#), 25 Jan. (2023), Yahoo Japan news
6. [‘国内で初めて高速電波バーストの検出に成功’](#), 19 Jan. (2023), AstroArts
7. [‘東大が日本初検出、天体現象「高速電波バースト」ってなに?’](#), 13 Jan. (2023), Yahoo Japan news
8. [‘臼田64 m電波望遠鏡を用いた日本初の高速電波バースト検出’](#), 12 Jan. (2023), Tii 技術情報
9. [‘日本初、高速電波信号を検出\(水沢観測所に所属する東大院生の池邊さんら\)’](#), 12 Jan. (2023), 胆江日日新聞
10. [‘東大など、天体現象「高速電波バースト」日本初検出 母天体・放射メカニズム解明へ’](#), 12 Jan. (2023), 日刊工業新聞
11. [‘東大、臼田64m電波望遠鏡を用いた日本初の高速電波バースト検出に成功’](#), 12 Jan. (2023), 日本経済新聞
12. [‘Flash! A Bright Fast Radio Burst Detected at High Frequencies’](#), 13 Dec. (2022), astrobites
13. [‘高速電波バーストの正体を、出現する銀河の環境から探る’](#), 5 Dec. (2022), AstroArts
14. [‘東大、「高速電波バースト」の出現銀河の特異性を発見’](#), 30 Nov. (2022), マイナビニュース
15. [‘東大、「高速電波バースト」の出現銀河の特異性を発見’](#), 30 Nov. (2022), NewsPicks
16. [‘東大、「高速電波バースト」の出現銀河の特異性を発見’](#), 30 Nov. (2022), Mapionニュース
17. [‘東大、「高速電波バースト」の出現銀河の特異性を発見’](#), 30 Nov. (2022), BIGLOBEニュース
18. [‘東大、分子ガスで高速電波バースト出現環境観測 3億6000万光年先の母銀河捕捉’](#), 28 Nov. (2022), 日刊工業新聞
19. [‘東大など、分子ガス観測から高速電波バースト出現環境を明らかに’](#), 28 Nov. (2022), 日本経済新聞
20. [Press release: ‘Toward unveiling the cosmic mystery of Fast Radio Bursts’](#), 28 Nov. (2022), University of Tokyo/NCHU/NTHU
21. [‘Testing Einstein's Work Using Observations of Fast Radio Bursts’](#), 5 Dec. (2021), Medium
22. [More than 40 media featured our Dyson sphere paper](#) led by Mr. Hsiao including Tetsuya Hashimoto (2021)
23. [‘Dyson Spheres Around Black Holes Could Reveal Alien Civilizations, Scientists Say’](#), 17 August (2021), Science alert
24. [‘台研究稱外星文明理論上可於黑洞周圍出現 人類或可探測其能源消耗’](#), 17 August (2021), 立場新聞
25. [‘Black holes surrounded by massive, energy-harvesting structures could power alien civilizations’](#), 16 August (2021), Science Magazine

26. '[CAN ALIENS BUILD A DYSON SPHERE AROUND A BLACK HOLE?](#)', 6 August (2021), INVERSE
27. '[Astronomie : et si une civilisation extraterrestre avancée tirait son énergie d'un trou noir ?](#)', 9 July (2021), maxisciences.com
28. '[Could we use a Dyson sphere to harvest energy around a black hole?](#)', 8 July (2021), ZME SCIENCE
29. '[Une civilisation extraterrestre avancée pourrait tirer son énergie d'un trou noir](#)', 7 July (2021), Yahoo France
30. '[WHICH ENERGY SOURCES TYPE II CIVILIZATION WILL UTILIZE IF THEY AIM TO BUILD A DYSON SPHERE AROUND A BLACK HOLE?](#)', 30 June (2021), Uncover Reality
31. '[A Dyson Sphere Around A Black Hole](#)', 29 June (2021), SPACEREF
32. '[MYSTERIOUS RADIO SIGNALS IN THE UNIVERSE ARE NOT FROM ALIENS](#)', 20 April 2021, the NTHU Newsletter
33. '夜空の知られざる「爆発現象」の正体', 3 April 2021, NewsPicks
34. '[Mysterious radio signals in the universe are not from aliens](#)', 30 March 2021, INQUIRER.net
35. '[1000分の1秒 宇宙の瞬き「高速電波バースト」の正体](#)', 27 March 2021, 産経新聞
36. '[高速電波バーストの頻度と歴史から正体に迫る](#)', 22 March 2021, AstroArts
37. '外星人來電？清大：想不到電波打這來', 19 March, 2021, 産経新聞網
38. '外星人來電？清大：想不到電波打這來', 18 March, 2021, TUN大學網
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