

Curriculum Vitae

Tetsuya Hashimoto

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Profile

I am a CICA fellow in the National Tsing Hua 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 (39 years old)

Education and qualifications

2005-2008 The University of Tokyo

PhD Department of Astronomy

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

2003-2005 The University of Tokyo

MA Department of Astronomy

Dissertation: Spectroscopic observations of NGC7319

1999-2003 Kyushu University

BA Department of Physics

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

Employment

2019 – present 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

The best talk prize in the international conference, "Future Science with Multi-Wavelength Data" (2019).

Research grant

I co-lead the proposals of the following grants with Dr. Seong Jin Kim.

-Grant for an 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: 40,059 NTD

-Grant for an 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: 145,000 NTD

Reviewer

Subaru telescope proposal reviewer (2019-2020)

Astronomy & astrophysics referee (2019)

Telescope Access Program, China (2019)

Journal of the Korean Astronomical Society (2018)

Supervision

-I am supervising Mr. Yu-Yang Hsiao and Mr. Jia-Yuan Chang.

Tiger Yu-Yang 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', submitted to Monthly Notices of the Royal Astronomical Society, (2020).

-I am supervising Mr. Ling.

Chih-Teng Ling, **Tetsuya Hashimoto**, and Tomotsugu Goto, 'What determines the maximum stellar surface density of galaxies?', re-submitted to MNRAS. He was awarded **the best poster prize** in the Astronomical Society of the Republic of China annual meeting (2019) based on this work.

-I supervised Mr. 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. 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. 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 Timely Talk per Thirty days organized by Tetsuya (TTTT) seminar at the institute of astronomy/National Tsing Hua University. I invited more than 20 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 PhD student in the NTHU/loA, got an opportunity to jump in the BICEP project as a postdoc in the US. The TTTT is complementary to the official colloquium in the NTHU/loA on Friday. Students are encouraged to actively ask questions not only about science but also academic life abroad, contributing to the NTHU activity.

I also organize astro-ph class during off-semester. The astro-ph class is a class to read/share new papers and to catch an essence of each paper briefly. During semester, professors supervise astro-ph class in the NTHU/loA. New papers appear everyday regardless of semester. It is important especially for young students and postdocs to continuously keep the activity.

Conference SOC/LOC

- Session chair of the annual meeting of 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)
- LCO, '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 wavelength. I also have experience with submillimeter/radio observations with the ALMA and ATCA as well as the 45-m radio telescope in NAOJ Nobeyama Radio Observatory. I mainly use python, IDL, C language, and IRAF for data analysis, and experienced fortran, php, and cgi script.

Publication list

I have 45 publications including PI/Co-I refereed papers, invited review articles, and non-refereed proceedings. I had 12 invited talks in English and 25 oral presentations in conferences in English. Five representative papers are marked by ☆. Papers based on my supervision are marked by ★.

Refereed PI papers

1. [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', submitted to Monthly Notices of the Royal Astronomical Society (2020).
2. ☆[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, Tiger Y.-Y. Hsiao, 'No redshift evolution of non-repeating fast radio-burst rates', submitted to Science, (2020).
3. ☆[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', accepted by Monthly Notices of the Royal Astronomical Society, (2020).
4. [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).
5. ☆[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).
6. ☆[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).
7. ☆★[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.
8. [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)
9. [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.
10. [Tetsuya Hashimoto](#), Tohru Nagao, Kenshi Yanagisawa, Kenta Matsuoka, and Nobuo Araki, 'Spatially Extended [P II]1.188 μ m and [Fe II]1.257 μ m Emission Lines Observed with OAO/ISLE', Publications of the Astronomical Society of Japan, (2011) Vol.63, No.1, pp.L7--L11
11. [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
12. [Tetsuya Hashimoto](#) and Iye Masanori, ‘Spectroscopic Analysis of Narrow Line Regions in Active Galactic Nuclei’, PhD thesis in University of Tokyo, (2008).

Refereed CoI papers

13. ★Tiger Yu-Yang 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’, submitted to *Monthly Notices of the Royal Astronomical Society*, (2020).
14. ★Chih-Teng Ling, [Tetsuya Hashimoto](#), and Tomotsugu Goto, ‘What determines the maximum stellar surface density of galaxies?’, re-submitted to *Monthly Notices of the Royal Astronomical Society*, (2020).
15. Simon C.-C. Ho, Tomotsugu Goto, Nagisa Oi, Seong Jin Kim, Matthew A. Malkan, Agnieszka Pollo, [Tetsuya Hashimoto](#), and et al., ‘Photometric Redshifts of North Ecliptic Pole Wide Field based on Deep Optical Survey using Hyper Suprime-Cam’, submitted to *Monthly Notices of the Royal Astronomical Society*, (2020).
16. Yoshiaki Toba, Tomotsugu Goto, Nagisa Oi, Ting-Wen Wang, Seong Jin Kim, Chien-Chang Ho, Denis Burgarella, [Tetsuya Hashimoto](#), and et al., ‘Infrared Galaxies without Optical Counterparts of Subaru Hyper Suprime-Cam in the AKARI North Ecliptic Pole Wide Survey Field’, submitted to *The Astrophysical Journal*, (2020)
17. Tapish Narwal, Tomotsugu Goto, [Tetsuya Hashimoto](#), Seong-Jin Kim, Chia-Ying Chiang, Yi-Han Wu, ‘Discovery of a supercluster system at $z \sim 1.1$ ’, re-submitted to *The Astrophysical Journal*, (2020).
18. Ting-Yi Lu, Tomotsugu Goto, Ji-Jia Tang, [Tetsuya Hashimoto](#), Valerie Wang, ‘Reionization tests with a QSO at $z=6.62$ ’, accepted by *The Astrophysical Journal*, (2020).
19. Bunyo Hatsukade, Kouji Ohta, [Tetsuya Hashimoto](#), Kotaro Kohno, Kouichiro Nakanishi, Yuu Niino, and Yoichi Tamura, ‘ALMA CO Observations of the Host Galaxies of Long-duration Gamma-Ray Bursts. I. Molecular Gas Scaling Relations’, *The Astrophysical Journal*, Volume 892, Issue 1, id.42, (2020)
20. Bunyo Hatsukade, [Tetsuya Hashimoto](#), Kotaro Kohno, Kouichiro Nakanishi, Kouji Ohta, Yuu Niino, Yoichi Tamura, and L. Viktor Toth, ‘Molecular Gas Properties in the Host Galaxy of GRB 080207’, *Monthly Notices of the Royal Astronomical Society*, Volume 488, Issue 1, p.120-134, (2019).
21. Rieko Momose, Tomotsugu Goto, [Tetsuya Hashimoto](#) and et al., ‘Coevolution and Possible CGM Evolution Revealed by Ly α Halos around QSOs’, *Monthly Notices of the Royal Astronomical Society*, Volume 488, Issue 1, p.120-134, (2019).
22. Yi-Han Wu, Tomotsugu Goto, Ece Kilerci-Eser, [Tetsuya Hashimoto](#), Seong-Jin Kim, Chia-Ying Chiang, and Ting-Chi Huang, ‘CO Luminosity-FWHM Correlation of Low and High Redshift Galaxies and Its Possible Cosmological Utilization’, *Monthly Notices of the Royal Astronomical Society*, Volume 483, Issue 4, p.5281-5290, (2019).
23. Tomotsugu Goto, [Tetsuya Hashimoto](#), and et al., ‘Infrared luminosity functions based on 18 mid-infrared bands: revealing cosmic star formation history with AKARI and Hyper Suprime-Cam’, *Publications of the Astronomical Society of Japan*, Volume 71, Issue 2, id.30, (2019).
24. Chia-Ying Chiang, [Tetsuya Hashimoto](#), and et al., ‘Does AGN Fraction Have Redshift or

- Luminosity Dependence? An Extinction-Free Test by 18-band Mid-infrared SED Fitting in the AKARI NEP Wide Field', Publications of the Astronomical Society of Japan, Volume 71, Issue 2, id.31, (2019).
25. Ji-Jia Tang, Tomotsugu Goto, Youichi Ohya, Chichuan Jin, Chris Done, Ting-Yi Lu, [Tetsuya Hashimoto](#), and et al., 'Rapid black hole growth at the dawn of the Universe: a super-Eddington quasar at $z = 6.6$ ', Monthly Notices of the Royal Astronomical Society, Volume 484, Issue 2, p.2575-2586, (2019).
 26. Seonj-Jin Kim, [Tetsuya Hashimoto](#), and et al., 'Characteristics of PAH luminous galaxies in the North Ecliptic Pole field', Publications of the Astronomical Society of Japan, Volume 71, Issue 1, id.11, (2019).
 27. ★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)
 28. Goto, Tomotsugu; Utsumi, Yousuke; Kikuta, Satoshi; Miyazaki, Satoshi; Shiki, Kensei; [Tetsuya Hashimoto](#), 'No Ly α emitters detected around a QSO at $z = 6.4$: Suppressed by the QSO?', Monthly Notices of the Royal Astronomical Society: Letters, Volume 470, Issue 1, p.L117-L121. (2017)
 29. Niino, Yuu; Aoki, Kentaro; [Hashimoto, Tetsuya](#); Hattori, Takashi; Ishikawa, Shogo; Kashikawa, Nobunari; Kosugi, George; Onoue, Masafusa; Toshikawa, Jun; Yabe, Kiyoto, 'The redshift-selected sample of long gamma-ray burst host galaxies: The overall metallicity distribution at $z < 0.4$ ', Publications of the Astronomical Society of Japan, Volume 69, Issue 2, id.27. (2016)
 30. ★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).
 31. Totani, Tomonori; Aoki, Kentaro; Hattori, Takashi; Kosugi, George; Niino, Yuu; [Hashimoto, Tetsuya](#); Kawai, Nobuyuki; Ohta, Kouji; Sakamoto, Takanori; Yamada, Toru, 'Probing intergalactic neutral hydrogen by the Lyman alpha red damping wing of gamma-ray burst 130606A afterglow spectrum at $z = 5.913$ ', Publications of the Astronomical Society of Japan, Volume 66, Issue 3, id.6313, (2014).
 32. Hatsukade, B.; Ohta, K.; Endo, A.; Nakanishi, K.; Tamura, Y.; [Hashimoto, T.](#); Kohno, K., 'Two γ -ray bursts from dusty regions with little molecular gas', Nature, Volume 510, Issue 7504, pp. 247-249 (2014).
 33. Hatsukade, Bunyo; [Hashimoto, Tetsuya](#); Ohta, Kouji; Nakanishi, Kouichiro; Tamura, Yoichi; Kohno, Kotaro, 'Constraints on Obscured Star Formation in Host Galaxies of Gamma-Ray Bursts', The Astrophysical Journal, Volume 748, Issue 2, article id. 108, 4 pp. (2012)
 34. Niino, Yuu; [Hashimoto, Tetsuya](#); Aoki, Kentaro; Hattori, Takashi; Yabe, Kiyoto; Nomoto, Ken'ichi, 'GRB 100418A: a Long GRB without a Bright Supernova in a High-Metallicity Host Galaxy', Publications of the Astronomical Society of Japan, (2012) Vol.64, No.5, Article No.115, 8 pp.
 35. Kazuaki Ota, Masanori Iye, Nobunari Kashikawa, Kazuhiro Shimasaku, Masakazu Kobayashi, Tomonori Totani, Masahiro Nagashima, Tomoki Morokuma, Hisanori Furusawa, Takashi Hattori, Yuichi Matsuda, [Tetsuya Hashimoto](#), and Masami Ouchi, 'Reionization and Galaxy Evolution Probed by $z=7$ Ly α Emitters', The Astrophysical Journal, 677:12–26, (2008).

36. Iye Masanori, Ota Kazuaki, Kashikawa Nobunari, Furusawa Hisanori, [Tetsuya Hashimoto](#), Hattori Takashi, Matsuda Yuichi, Morokuma Tomoki, Ouchi Masami, Shimasaku Kazuhiro, 'A galaxy at a redshift $z = 6.96$ ', *Nature*, Volume 443, Issue 7108, pp. 186-188 (2006).
37. 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)

38. [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.
39. [Tetsuya Hashimoto](#), "Performance of TMT and the evaluation", TMT special issue, the astronomical herald, the astronomical society of Japan, (2014), p.694-700, Dec.
40. Tetsuya Hashimoto, "Mysteries of dark gamma-ray bursts", modern science dictionary, big moon Inc., (2014), p.22-25
41. [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

42. [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).
43. [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*.
44. Taddia, F. and [Tetsuya Hashimoto](#) et al., 'iPTF discovery of recent core-collapse SNe', *The Astronomer's Telegram*, #6538, (2014).
45. [Hashimoto, T.](#); Ohta, K.; Aoki, K.; Tanaka, I.; Yabe, K.; Kawai, N.; Niino, Y, '"Dark" GRB 080325 in a Dusty Massive Galaxy at $z \sim 2$ ', *Progenitors and Environments of Stellar Explosions*, XXVIth IAP Annual Colloquium, held in Paris, 28 June - 2 July, (2010).

Invited talk (English)

1. 'Recent three discoveries from NTHU cosmology group', the Institute of Astronomy, the National Central University in Taiwan, 29 Nov., 2019
2. 'Recent three discoveries from NTHU cosmology group', the Institute of Astronomy, the University of Tokyo at Mitaka in Japan, 24 Oct., 2019
3. '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
4. 'Three discoveries from NTHU/Taiwan cosmology group', National Centre for Nuclear Research in Poland, 1 Oct., 2019
5. 'Recent three discoveries from NTHU cosmology group', Academia Sinica in Taiwan, 6 Sep., 2019
6. 'A new parameter in the fundamental metallicity relation of star-forming galaxies',

- National Astronomical Observatory of Japan, 11 Oct., 2018
7. 'A new parameter in the fundamental metallicity relation of star-forming galaxies', University of Tokyo in Japan, 4 Oct., 2018
 8. 'Why Are Some Gamma-Ray Bursts Hosted by Oxygen-rich Galaxies?', Academia Sinica in Taiwan, 5 Sep., 2018
 9. 'Why Are Some Gamma-Ray Bursts Hosted by Oxygen-rich Galaxies?', Yunnan Observatory in China, 8 Aug., 2018
 10. 'Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies', National Central University in Taiwan, 27 Oct., 2017
 11. 'Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies', National Astronomical Observatory of Japan, 12 Oct., 2017
 12. 'Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies', Academia Sinica in Taiwan, 9 Aug., 2017

Conference talk (English)

13. '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)
14. '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)
15. '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)
16. 'A young galaxy cluster in the old Universe', 'Galaxy Formation and Evolution Across Cosmic Time', held at Taipei in Taiwan, 11 Dec., (2019)
17. '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)
18. 'A young galaxy cluster in the old Universe', 'Subaru 20th anniversary', held at Kona/Hawaii in the USA, 19 Nov., (2019)
19. 'Why are some gamma-ray bursts hosted by oxygen-rich galaxies?', 'Yokohama GRB 2019', held at Yokohama in Japan, 1 Nov., (2019)
20. 'A young galaxy cluster in the old Universe', 'Future Science with Multi-Wavelength Data', held in Taiwan, 25 June, (2019). **I received the best talk prize.**
21. 'A young galaxy cluster in the old Universe', 'The Annual Meeting of the Astronomical Society of the Republic of China (Taiwan)', 17 May, (2019)
22. 'Why Are Some Gamma-Ray Bursts Hosted by Oxygen-rich Galaxies?', 'Subaru-EAO High-z Galaxy Workshop 2019', 1 Feb., (2019)
23. 'Why Are Some Gamma-Ray Bursts Hosted by Oxygen-rich Galaxies?', '10th DTA symposium Stellar deaths and their diversity', 22 Jan., (2019)
24. 'The 4D Fundamental Metallicity Relation of SFGs', 'Science with AKARI NEP infrared data', 27 June, (2018)
25. '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)
26. '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)
27. '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).
28. '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)
 29. '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)
 30. '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)
 31. '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)
 32. '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)
 33. 'Study on GRB host galaxies in the TMT era', 'Astronomy in the TMT Era', Tokyo, Japan, 16 Oct., (2013)
 34. '"Dark" GRB 080325 in a Dusty Massive Galaxy at $z \sim 2$ ', 'Progenitors and Environments of Stellar Explosions, Paris', France, 28 June, (2010)
 35. '"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)
 36. '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)
 37. '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)

Conference talk (Japanese, English translation)

38. 'Luminosity-Duration Relation of Fast Radio Bursts: a new tool for precision cosmology', ASJ annual meeting, Japan, 13 Sep., (2019)
39. 'Why Are Some Gamma-Ray Bursts Hosted by Oxygen-rich Galaxies?', ASJ annual meeting, Japan, 21 Sep. (2018)
40. 'Iron Abundances of Long GRB host galaxies', 'New innovation of Gamma-Ray Bursts', Japan, 21 Nov. (2017)
41. 'Surface density: a new parameter in the fundamental metallicity relation of star-forming galaxies', ASJ annual meeting, Japan, 11 Sep. (2017)
42. 'Development of TMT Exposure Time Calculator', ASJ annual meeting, Japan, 12 Sep. (2013)
43. 'Near-infrared spectroscopy of a GRB 080325 host galaxy', ASJ annual meeting, Japan, 19 Sep. (2012)
44. 'Near-infrared spectroscopy of NGC 1068 with OAO/ISLE', ASJ annual meeting, Japan, 23 Sep. (2010)
45. 'A large extinction for a "dark" GRB080325 in a dusty massive galaxy', ASJ annual meeting, Japan, 27 March (2010)
46. 'Near-infrared integral-field spectroscopy of NGC 7319', ASJ annual meeting, Japan, 11 Sep. (2008)
47. 'Ionization diagnostics of AGN narrow-line regions based on SDSS', ASJ annual meeting, Japan, 24 March (2008)
48. 'Ionization mechanism of AGN narrow-line regions with SDSS data', ASJ annual

- meeting, Japan, 20 Sep. (2006)
49. 'Ionization mechanism of narrow-line regions in Seyfert galaxy NGC 7319', ASJ annual meeting, Japan, 8 Oct. (2005)
 50. 'A relationship between radio ejecta and ionized-gas outflow in NGC 7319', ASJ annual meeting, Japan, 22 Sep. (2004)
 51. 'The current status of follow-up observations of supernovae', ASJ annual meeting, Japan, 25 March (2003)

Public talk (Japanese, English translation)

52. 'Supernovae and Gamma-Ray Bursts in TMT era', Asahi culture center in Yokohama 'The new Universe to be opened by a 30m telescope, TMT', Kanagawa, Japan, 17 May (2014)
53. 'From Subaru to 30m telescope, TMT', Starry sky summit, 60th anniversary of Bisei telescope, Okayama, Japan, 10 Nov. (2013)
54. 'Gamma-Ray Bursts, the most energetic explosion in the Universe', NAOJ/Subaru telescope public talk 'Hunting of the most biggest explosion in the Universe', Tokyo, Japan, 9 June (2013)
55. 'Violent galaxy', Asahi culture center in Yokohama 'The active Universe', Kanagawa, Japan, 16 June (2012)
56. 'Active galactic nuclei and super massive black hole', 'Ibara astronomical course', 2 Nov. (2008)

Grant funding

I and Dr. Seong Jin Kim co-lead funding applications to MOST and MOE in 2018, and then competitively won to get funding from MOST and MOE to host a 3-day international conference at NTHU/IOA (<https://seongini.wixsite.com/nepconf2>). The conference was held on June 2019 with ~40 participants including researchers from the US, France, Poland, Korea, Japan, and Taiwan.

-Grant for an 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: 40,059 NTD

-Grant for an 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: 145,000 NTD

Media

1. 'Mysterious signals from space could teach us how dark energy works', 8 Aug. 2019, New Scientist
2. 'A mysterious afterglow discovered by a research team in the Kyoto University', Asahi Shinbun evening paper, chapter 6, 21 July (2010)
3. 'Is the most energetic explosion in Milky Way possible?', Yomiuri Shinbun evening paper, chapter 12, 22 July (2010)
4. 'The most biggest explosion in the Universe happened in a massive galaxy, discovered by a team in the Kyoto University', NihonKeizai Shinbun evening paper, 21 July (2010)

5. 'Gamma-Ray Burst, the most biggest explosion in the Universe, could happen in the Milky Way, a possibility to trigger mass extinction in the Earth', Kyoto Shinbun evening paper, 21 July (2010)