

Curriculum Vitae

Masaaki HIRAMATSU, Ph.D.

Associate Professor (Senior Lecturer),
Head of Spectrum Management Office, Public Relations Center /
Director of Industry Liaison Office,
National Astronomical Observatory of Japan (NAOJ),
National Institutes of Natural Sciences (NINS),
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Education:

The University of Tokyo, Ph.D. in Astronomy, March 2008
Thesis: *Chameleonic Star Formation – A Millimeter/submillimeter Study of*
Chamaeleon Molecular Cloud
Adviser: Prof. Tetsuo Hasegawa and Sachiko K. Okumura (NAOJ)

The University of Tokyo, M.S. in Astronomy, March 2005

The University of Tokyo, B.A. in Astronomy, March 2003

Academic Experiences:

Associate Professor (Senior Lecturer), Public Relations Center, NAOJ 2021 - present

Associate Professor (Senior Lecturer),
Department of Astronomical Science, SOKENDAI 2021 - present

Assistant Professor, ALMA Project, NAOJ 2019 - 2021

Assistant Professor, Chile Observatory, NAOJ 2012 - 2018

Assistant Professor,
Department of Astronomical Science, SOKENDAI 2012 - 2021

Assistant Professor, ALMA Project Office, NAOJ 2011 - 2012

ALMA Regional Center Astronomer,
Institute of Astronomy & Astrophysics, Academia Sinica (ASIAA) 2010 – 2011

Postdoctoral Fellow, ASIAA 2008 - 2011

Research Assistant, NAOJ 2005 - 2008

Special Roles in Organization:

Director of the Industry Liaison Office, NAOJ	2023 - present
Launching member of the Industry Liaison Office, NAOJ	2020 - present
Executive Advisor to the Director General, NAOJ in public relations in engineering and organizational communication, NAOJ	2019 - 2024
Interim Chief Public Relations Officer, Public Relations Center, NAOJ	2014 - 2016

Observing Experience:

Atacama Submillimeter Telescope Experiment (ASTE)	~ 70 days
Nobeyama 45m Telescope	25 days
Submillimeter Array	2 nights
Submillimeter Telescope, Arizona Radio Observatory	4 nights

Skills:

Languages: Japanese (native), English
Programming: Python, IDL, Java, Fortran, HTML

Refereed Publications:

- Hiramatsu, M., Takanashi, N., Asagiri, S., Kawagoe, S.K., Amano, S.G., Kamegai, K. 2021, *Virtual ALMA Tour in VRChat: A Whole New Experience*, *Communicating Astronomy with the Public Journal*, 30, 18
- Hiramatsu, M., Hirano, N., and Takakuwa, S. 2010, *Outflow-Core Interaction in Barnard 1*, *ApJ*, 712, 778
- Hiramatsu, M., Hayakawa, T., Tatematsu, K., Kamegai, K., Onishi, T., Mizuno, A., Yamaguchi, N., and Hasegawa, T. 2007, *ASTE Submillimeter Observations of a Young Stellar Object Condensation in Cederblad 110*, *ApJ*, 664, 964
- Takanashi, N., Hiramatsu, M., Kawagoe, S., Kusakabe, N., Sawada, K., Tamazawa, H. 2024, *Survey of public attitudes toward astronomy in Japan*, *PASJ*, 76, 108
- Christensen, L. L., Balokovic, M., Chou, M. -Y., Crowley, S., Edmonds, P., Foncea, V., Hiramatsu, M., Hunter, C., Konigstein, K., Leach, S., Lira, N., Lyubenova, M., Matsushita, S., Parsons, H., Ros, E., Sandu, O., Turner, C., Watzke, M., Zacher, K. 2019, *An Unprecedented Global Communications Campaign for the Event Horizon Telescope First Black Hole Image*, *Communicating Astronomy with the Public Journal*, Volume 26, p.11
- Tamura, Y., Kawabe, R., Shimajiri, Y., Tsukagoshi, T., Nakajima, Y., Oasa, Y., Wilner, D. J., Chandler, C. J., Saigo, K., Tomida, K., Yun, M. S., Taniguchi, A.,

- Kohno, K., Hatsukade, B., Aretxaga, I., Austermann, J. E., Dickman, R., Ezawa, H., Goss, W. M., Hayashi, M., Hughes, D. H., Hiramatsu, M., Inutsuka, S., Ogasawara, R., Ohashi, N., Oshima, T., Scott, K. S., Wilson, G. W. 2015, *Extremely Bright Submillimeter Galaxies beyond the Lupus-I Star-forming Region*, ApJ, 808, 121
- ALMA Partnership et al. 2015, *The 2014 ALMA Long Baseline Campaign: An Overview* ApJ, 808, L1
 - Shimajiri, Yoshito, Kitamura, Y., Nakamura, F., Momose, M., Saito, M., Tsukagoshi, T., Hiramatsu, M., Shimoikura, T., Dobashi, K., Hara, C., Kawabe, R. 2015, *Catalog of Dense Cores in the Orion A Giant Molecular Cloud*, ApJS, 217, 7
 - Espada, D., Komugi, S., Muller, E., Nakanishi, K., Saito, M., Tatematsu, K., Iguchi, S., Hasegawa, T., Mizuno, N., Iono, D., Matsushita, S., Trejo, A., Chapillon, E., Takahashi, S., Su, Y. N., Kawamura, A., Akiyama, E., Hiramatsu, M., Nagai, H., Miura, R. E., Kurono, Y., Sawada, T., Higuchi, A. E., Tachihara, K., Saigo, K., Kamazaki, T. 2012, *Giant Molecular Clouds and Star Formation in the Tidal Molecular Arm of NGC 4039*, ApJ, 760, L25
 - Koo, B.-C., McKee, C. F., Suh, K.-W., Moon, D.-S., Onaka, T., Burton, M. G., Hiramatsu, M., Bessell, M. S., Gaensler, B. M., Kim, H.-J., Lee, J.-J., Jeong, W.-S., Lee, H.-G., Im, M., Tatematsu, K., Kohno, K., Kawabe, R., Ezawa, H., Wilson, G., Yun, M. S., Hughes, D. H. 2011, *IRAS 15099-5856: Remarkable Mid-infrared Source with Prominent Crystalline Silicate Emission Embedded in the Supernova Remnant MSH15-52*, ApJ, 732, 6
 - Shimajiri, Y., Kawabe, R., Takakuwa, S., Saito, M., Tsukagoshi, T., Momose, M., Ikeda, N., Akiyama, E., Austermann, J. E., Ezawa, H., Fukue, K., Hiramatsu, M., Hughes, D., Kitamura, Y., Kohno, K., Kurono, Y., Scott, K. S., Wilson, G., Ysohida, A., and Yun, M. S. 2011, *New Panoramic View of ^{12}CO and 1.1 mm Continuum Emission in the Orion A Molecular Cloud. I. Survey Overview and Possible External Triggers of Star Formation*, PASJ, 63, 105
 - Tsukagoshi, T., Saito M., Kitamura Y., Momose, M., Shimajiri Y., Hiramatsu, M., Ikeda N., Kamegai K., Wilson G. W., Yun M. S., Hughes D. H., Ezawa H., Kohno K., and Kawabe R. 2011 *Detection of Strong Millimeter Emission from the Circumstellar Dust Disk around V1094 SCO: Cold and Massive Disk around a T Tauri star in a Quiescent Accretion Phase?* ApJ, 726, 45
 - Handa, T., Sakano, M., Naito, S., Hiramatsu, M., and Tsuboi, M. 2006, *Thermal SiO and H^{13}CO^+ Line Observations of the Dense Molecular Cloud G0.11-0.11 in the Galactic Center Region*, ApJ, 636, 261

Presentations in International Conferences on Astronomy:

[Oral Presentations]

- Hiramatsu, M., Ohashi, N., Chen, H. R., Shimajiri, Y., Kawabe, R. and Momose, M. *SMA Survey of the Low Luminosity YSOs in Perseus*, “The Origins of Stellar Masses”, Tenerife, Spain, 2010 October
- Hiramatsu, M., AzTEC/ASTE K1 project, AzTEC/ASTE collaboration, *AzTEC/ASTE AzTEC on ASTE: 1.1 mm Survey toward Cha-I and Cha-II, and spectral line follow up*, “Interstellar Matter and Star Formation in the Southern Sky”, Helsinki, Finland, 2008 August
- Hiramatsu, M., AzTEC/ASTE K1 project, AzTEC/ASTE collaboration, *AzTEC/ASTE Wide-Field Imaging of Southern Star Forming Regions at $\lambda = 1.1$ mm*, “The 4th Japan-Taiwan ALMA Science Meeting”, Mito, Japan, 2008 April
- Hiramatsu M., Hayakawa, T., Tatematsu, K., Hasegawa, T., Onishi, T., Mizuno, A. and ASTE team, *Outflow - Core Interaction in Chamaeleon Star Forming Region*, “East-Asian Molecular Cloud Workshop”, Tokyo, Japan, 2006 February

[Poster Presentations]

- Hiramatsu, M., Hirano N., Takakuwa S., and Hasegawa T., *Outflow-Core Interaction in Barnard 1*, “Millimeter and Submillimeter Astronomy at High Angular Resolution”, Taipei, Taiwan, 2009 June
- Hiramatsu, M., AzTEC/ASTE K1 project, AzTEC/ASTE collaboration, *AzTEC/ASTE AzTEC/ASTE Wide-Field Imaging of Southern Star Forming Regions at $\lambda = 1.1$ mm*, “The Early Phase of Star Formation 2008”, Castle Ringberg, Germany, 2008 July
- Hiramatsu, M., Kamegai, K. Hayakawa, T., Tatematsu, Hasegawa, T., K., Onishi, T., Mizuno, A., and ASTE team, *ASTE Submillimeter Observations of a YSO Condensation in Cederblad 110*, “The 3rd Japan-Taiwan ALMA Science Meeting”, Chung-Li, Taiwan, 2007 April
- Hiramatsu, M., Kamegai, K. Hayakawa, T., Tatematsu, Hasegawa, T., K., Onishi, T., Mizuno, A., and ASTE team, *ASTE Submillimeter Observations of a YSO Condensation in Cederblad 110*, IAU Symposium 237 “Triggered Star Formation in a Turbulent ISM”, Prague, Czech Republic, 2006 August
- Hiramatsu M., Hayakawa, T., Tatematsu, K., Hasegawa, T., Onishi, T., Mizuno, A. and ASTE team, *ASTE Submillimeter Observations of YSO-Close-Packed Region Cederblad 110*, “Submillimeter Astronomy in the era of the SMA”, Boston, USA, 2005 June

Public Outreach Experience:

- Interim Chief Public Information Officer, NAOJ 2014.12 -2016.03
- Education and Public Outreach Officer, NAOJ ALMA 2011 – 2021
- Co-founder, the TENPLA project 2003 - present
- Student Staff, Regular Star Party at NAOJ Mitaka campus 2001 - 2008
(Student Staff in Chief, 2004 – 2006)
- Host, Science Live show “UNIVERSE”, Science Museum, Tokyo 2020 - present
- Assistant, Science Live show “UNIVERSE”, Science Museum, Tokyo 2001 - 2008

Presentations in Conferences on Public Outreach:

- Hiramatsu, M., *Public Acceptance of ALMA in Japan*, “Communicating Astronomy with the Public Conference 2018”, Fukuoka, Japan, 2018 March
- Hiramatsu M., *Communicating ALMA with the Public in Japan*, “IAU General Assembly 2012 Special Session 14, Communicating Astronomy with the Public for Scientists”, Beijing, China, 2012 August
- Hiramatsu M., Kamegai K., Takanashi N., and Tsukada K., *Popularization of Astronomy under Cooperation between Students and Educators in Japan: the TENPLA project (1)*, “IAU General Assembly 2006 Special Session 2, Innovation of Teaching/Learning Astronomy Methods”, Prague, Czech Republic, 2006 August
- Hiramatsu M., Takanashi N., & The TENPLA Project, *The TENPLA Project - Popularization of Astronomy under Cooperation between Students and Museums*, “The 9th Asian-Pacific Regional IAU Meeting 2005”, Bali, Indonesia, 2005, July