

JINSHI SAI (INSA CHOI)

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🏛 Academia Sinica Institute of Astronomy and Astrophysics (ASIAA)

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EMPLOYMENT & SALARY HISTORY

Postdoc Fellow <i>Academia Sinica Institute of Astronomy and Astrophysics (ASIAA)</i>	<i>Dec. 2021 - present</i>
Visiting PhD Student <i>Academia Sinica Institute of Astronomy and Astrophysics (ASIAA)</i>	<i>Dec. 2019 - Nov. 2021</i>
Subaru Sr. Research Intern <i>Research Corporation of the University of Hawaii</i>	<i>Dec. 2018 - Dec. 2019</i>

EDUCATION

PhD, Astronomy <i>Graduate School of Science, The University of Tokyo</i> <i>"Probing Gas Kinematics around Protostars with Multi-scale Observations"</i> <i>Supervisor: Dr. Nagayoshi Ohashi</i>	<i>Apr. 2018 - Nov. 2021</i>
MS, Astronomy <i>Graduate School of Science, The University of Tokyo</i>	<i>Apr. 2016 - Mar. 2018</i>
BS, Earth & Planetary Science <i>Kobe University</i>	<i>Apr. 2012 - Mar. 2016</i>

EXPERTISE & SKILLS

Field:	Star and disk formation, planet formation, (sub)millimeter astronomy
Observing Experience:	IRAM-30m telescope (on-site), Nobeyama-45m telescope (remote)
Data Reduction:	(Sub)millimeter interferometers (ALMA, ACA, SMA), single dish telescopes (IRAM-30m, APEX)
Software for Astronomy:	CASA, MIRIAD, GILDAS, RADMC-3D
Software:	LaTeX, Microsoft Office, Inkscape
Programming:	Python, Fortran, IDL
Languages:	Japanese (native), English (fluent)

CONFERENCES & SEMINARS

(Talks)

ASIAA Colloquium , Taipei, Taiwan <i>Characterizing Gas Kinematics around Protostars over a Wide Spatial Range from Cores to Disks</i>	<i>Jun. 2022</i>
National Central University Colloquium , Taoyuan, Taiwan <i>Gas kinematics around protostars over a wide spatial range from a disk to a core</i>	<i>Mar. 2022</i> <i>(invited)</i>
East Asia ALMA Science Workshop 2022 , Virtual <i>The Gas kinematics of the Protostellar Envelopes/Cores Probed with Multiscale Observations</i>	<i>Jan. 2022</i>
East Asia ALMA Science Workshop 2021 , Virtual <i>Which Part of Dense Cores Does Feed Materials to Protostars?: the Case of L1489 IRS</i>	<i>Feb. 2021</i>
ALMA Workshop 2019: Early Planet Formation in Embedded Disks , Tokyo, Japan <i>Warped Disk Structure around the Class I Protostar L1489 IRS Revealed by ALMA</i>	<i>Dec. 2019</i>
2019 JCMT Users Meeting , Taipei, Taiwan <i>Transition from a Quiescent Core to a Dynamical Envelope around the Protostar L1489 IRS</i>	<i>Nov. 2019</i>

Subaru 20th Anniversary , Waikoloa, Hawaii, USA <i>ALMA Observations of the Late-Phase Protostar L1489 IRS: Warped or Misaligned Disk Structure</i>	Nov. 2019
East Asia ALMA Science Workshop 2017 , Daejeon, Korea <i>ALMA Cycle 2 Observations of the Class I Protostar L1489 IRS: Misaligned Disk Structure</i>	Nov. 2017
(Posters)	
RAS Early Career Poster Exhibition 2020 , Virtual <i>A Kinematical Transition from an Infalling Envelope to a Core around the Protostar L1489 IRS</i>	Sep. 2020
East Asia ALMA Science Workshop 2019 , Taipei, Taiwan <i>Kinematical transition from an infalling envelope to a quiescent core around the protostar L1489 IRS</i>	Feb. 2020

SUCCESSFUL OBSERVING PROPOSALS AS PI

Atacama Large Millimeter/submillimeter Array (ALMA) <i>The Kinematical Transition between the Envelope and Core around Young Embedded Protostars</i> - 16.6 hours for ACA 7-m array, Grade B, Cycle 7	2019
IRAM-30 m Telescope <i>Kinematical Transition from Cores to Envelopes around Evolved Protostars</i> - 36 hours, Grade A	2019 winter
<i>Kinematical Transition from a Core to an Envelope</i> - 21 hours, Grade A	2018 winter
Submillimeter Array (SMA) <i>Probing nature of possible secondary outflows around single protostars in Perseus</i> - 32 hours (4 tracks), Grade B	2022 summer

RESEARCH GRANTS

Grant from the Hayakawa Satio Fund, Astronomical Society of Japan	Sep. 2019
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PUBLICATIONS

First Author, Refereed

2. *Which Part of Dense Cores Feeds Material to Protostars? The Case of L1489 IRS*
J. Sai, N. Ohashi, A.J. Maury, S. Maret, H.-W. Yen, Y. Aso, and M. Gaudel, *The Astrophysical Journal*, 925, 12, 2022
1. *Disk Structure around the Class I Protostar L1489 IRS Revealed by ALMA: A Warped- disk System*
J. Sai, N. Ohashi, K. Saigo, T. Matsumoto, Y. Aso, S. Takakuwa, Y. Aikawa, I. Kurose, H.-W. Yen, K. Tomisaka, K. Tomida, and M.N. Machida, *The Astrophysical Journal*, 893, 51, 2020

Co Author, Refereed

2. *No Evidence of the Significant Grain Growth but Tentative Discovery of Disk Substructure in a Disk around the Class I Protostar L1489 IRS*
S. Ohashi (+2 co-authors and **J. Sai, 3rd**), accepted by *The Astrophysical Journal*
1. *ALMA Reveals a Misaligned Inner Gas Disk inside the Large Cavity of a Transitional Disk*
S. Mayama (+16 co-authors and **J. Sai, 12th**), *The Astrophysical Journal*, 868, L3, 2018