

Curriculum Vitae

札本 佳伸 (ふだもと よしのぶ) / Yoshinobu Fudamoto

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現職/Current Position

Position: Project Designated Assistant Professor

Institute: Chiba University, Center for Frontier Science

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職歴/Academic Career

2023 — Now Project Designated Assistant Professor, Chiba University

2024 — 2025 Visiting scholar at the University of Arizona

2020 — 2023 Waseda University, NAOJ ALMA project Postdoctoral Research Fellow

教育/Education — PhD year 2020

2016 — 2020 University of Geneva, Geneva, Switzerland, PhD (Supervisor: Pascal Oesch)

2012 — 2016 Ludwig-Maximilians-Universität München, Munich, Germany, MSc

2008 — 2012 Kyoto University, Kyoto, Japan, BSc

研究内容/Research Interest

宇宙初期における銀河の観測的研究：ビッグバンにより宇宙が誕生してから数億年以内に誕生した「初代銀河」の形成と成長の仕組みを望遠鏡を用いた観測により明らかにする研究に取り組んでいる。銀河内部の星、ガス、ダストや銀河の大規模構造といった多様な物理的性質がどのように関連し合うかを解き明かし、総合的に理解することが目標である。

Observations of galaxies in the early Universe: I am investigating the formation and evolution of galaxies within the first billion years after the Big Bang. Using multi-wavelength observations from optical/near-infrared telescope and radio telescopes, I aim to understand how various physical properties, including stars, gas, dust within galaxies, and large-scale structures, interact and evolve in a comprehensive framework.

所属学会/Academic Society

日本天文学会 / Astronomical Society of Japan

光学赤外線天文連絡会 / Group of Optical and Infrared Astronomers

宇宙電波懇談会 / Japan Radio Astronomy Forum

受賞歴/Awards

2025年度 千葉大学 先進学術賞

2024年度 日本天文学会 研究奨励賞 / Astronomical Society of Japan Young Astronomer Award

2021 Prix Plantamour-Prévost, University of Geneva, Switzerland

教育歴/Courses

2024年前期 国際福祉大学 成田キャンパス 初年度数学

研究業績リスト

獲得資金 / Approved External Funding

Jun. 2025	日本天文学会 早川幸男海外渡航援助基金（代表: 350千円）
Apr. 2023 — Mar. 2026	科研費 若手研究（代表: 3,640千円）

プレスリリース / Press Release

Jan. 2025	“Beyond the 'Dragon Arc,' behold a treasure trove of unseen stars” The University of Arizona / Chiba University
Dec. 2022	“Discovering Rare Red Spiral Galaxy Population from Early Universe with the James Webb Space Telescope” Waseda University
Sept. 2021	“131億年前の宇宙で塵に深く埋もれた「隠れ銀河」を複数発見” National Astronomical Observatory of Japan / Waseda University
Oct. 2020	“生まれたばかりの宇宙で成熟した銀河が急速に出現していた” National Astronomical Observatory of Japan / Waseda University

国際研究会招待講演 / Invited Talks in International Conferences

Jun. 2025	Opening Extreme Galaxy Observations through Individual Stars in Cosmological Distances at European Astronomical Society Annual Meeting
Sept. 2024	Galaxy Evolution during the Cosmic Reionization: New Insights from ALMA and JWST at Views on the multi-phase interstellar medium in galaxies
Feb. 2021	A Panchromatic View of Galaxy Build-up in the First 2 Gyrs of Cosmic History at East Asia ALMA Science Workshop

国内研究会招待講演 / Invited Talk in Japanese Conference

Mar. 2022	Terahertz Telescope in the Antarctic Workshop
Mar. 2022	The symposium of the Japan Radio Astronomy Forum

国際研究会一般講演 / Talks in International Conferences

Jun. 2025	European Astronomical Society Annual Meeting: SS16 A new picture of galaxy evolution from Cosmic Dawn to Cosmic Noon: after the first years of JWST operation and towards the ELT
May 2025	GALAXY ORIGINS IN THE JWST ERA: a “crisol” of stars, ISM, and super massive blackholes in the City of the Three Cultures
Dec. 2024	Evolution of Dust and Gas throughout Cosmic Time
Feb. 2024	Galaxies & AGN with the first Euclid data and beyond
Nov. 2023	Resolving the Extragalactic Universe with ALMA & JWST
Jun. 2022	European Astronomy Society Annual Meeting 2022
Jun. 2021	European Astronomy Society Annual Meeting 2021
Sept. 2019	Views on the interstellar medium in galaxies in the ALMA era

国内研究会一般講演 / Talks in Japanese Conferences

Mar. 2025	Bi-annual meeting of the astronomical society of Japan
Jun. 2024	ELT Science in Light of JWST
Jan. 2024	ALMA workshop 2023A
Sept. 2023	Bi-annual meeting of the astronomical society of Japan
Mar. 2023	Bi-annual meeting of the astronomical society of Japan
Feb. 2022	Galaxy evolution workshop
Sept. 2021	Bi-annual meeting of the astronomical society of Japan

セミナー講演 / Seminar Talks

- Mar. 2024 “ALMA and JWST exploration of high-redshift galaxies (and stars)”
Tsukuba University
- Dec. 2022 “Normal, Dust Obscured Galaxies in the Epoch of Reionization and future prospects”
Ehime University
- Jul. 2022 “The REBELS ALMA Survey: Average [CII] 158um Properties of Star-Forming Galaxies from $z \sim 7$ to $z \sim 4$ ”
Seminar talk in National Astronomical Observatory of Japan
- May 2022 “Normal, Dust-Obscured Galaxies in the Epoch of Reionization”
Laboratoire d’Astronomie de Marseille, Gent University tele-talk
- Sept. 2021 “The Rise of Normal, Dusty Galaxies During Cosmic Reionization”
The University of Arizona, EURECA seminar
- Dec. 2020 “New Pictures of High-Redshift Galaxies Captured by ALMA”
Seminar talk in National Astronomical Observatory of Japan

獲得望遠鏡時間 (PI) / Approved Telescope Time as a PI

- JWST-Cycle4 (55.3 hours) “The Dragon survey: A Direct Probe of the Early Stellar Luminosity Function and Dark Matter through Multi-cycle Multi-cadence Microlensing at $z=0.73$ ”
- Keck-25B (1 night) “Probing a Ly α Bubble in the Galaxy Over-Density at $z = 8.47$ ”
- ALMA-Cycle11 (24.4 hours) “Toward the Representative [CII] 158um Lines in the Reionization Era”
- ALMA-Cycle10 (10 hours) “The ALMA-JWST synergy: [OIII]88um and [CII]158um emission line observations of $z=9.51$ galaxy identified by JWST”
- ALMA-Cycle10 (17.3 hours) “[CII] 158um emission line and dust observation of the most distant known overdensity of galaxies at $z=7.88$ ”
- ALMA-Cycle9 (18.5 hours) “Probing origins of the [CII] emission in the Epoch of Reionization”
- ALMA-Cycle9 (13.5 hours) “Tracing Neutral Star-Forming Gas in the EoR using the [OI]-145um emission line”
- ALMA-Cycle9 (10 hours) “Dust Continuum Observations of Galaxies at $z \sim 5$: Revealing the Evolution of Dust-Obscuration at High Redshift”
- ALMA-Cycle9 (13.2 hours) “How hot are high-redshift galaxies?: constraining dust temperatures at $z \sim 5$ ”
- ALMA-Cycle8 (7.3 hours) “Spatially Resolving [CII] in the Brightest 0.5- L^* Galaxy at $z \sim 6$ ”
- ALMA-Cycle8 (5.6 hours) “Investigating Sites of Dense Galaxy Build-up in the Epoch of Reionization”
- 他Co-Investigatorとして、ALMA望遠鏡ラージプログラム1件含む77件の観測時間獲得、JWST望遠鏡観測プログラム7件（計464時間）獲得
- As a Co-Investigator, 77 observing programs, including one ALMA telescope large program, were approved

国際共同研究 / International Research Network

共著論文を出版済みの主な国際共同研究先機関を以下に挙げる。

米国：アリゾナ大学、カリフォルニア工科大学、ハーバード大学、UCバークレー校、スイス:ジュネーブ大学、オランダ：ライデン大学、スペイン：バレンシア大学、フランス：Laboratoire d'Astrophysique de Marseille、ドイツ：ハイデルベルグ大学、イギリス：ケンブリッジ大学、中国：清華大学