Yugo KAWAI

PhD Student in Exoplanetary Science,
JSPS Research Fellow (DC2)

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Profile

PhD student specializing in exoplanet formation and evolution, with experience in observational analysis and statistical modeling.

Education

2024– Expected 2027 **Ph.D.**, *The University of Tokyo*, Tokyo, Japan
Graduate School of Arts and Sciences
Supervisor: Prof. Norio Narita

2022–2024 **M.A. in Arts**, *The University of Tokyo*, Tokyo, Japan
Graduate School of Arts and Sciences
Thesis: *Probing the peculiar architecture of an exoplanetary system with TESS photometric light curves* (Outstanding Master's Thesis Award)

2018–2022 **B.A. in International Liberal Studies**, *Waseda University*, Tokyo, Japan

2018–2022 **B.A. in Communications and New Media**, *National University of Singapore*, Singapore
Double Degree Program

Fellowships

2025–Present **JSPS Research Fellowship for Young Scientists (DC2)**

2023–2024 **JST SPRING Fellowship**, Support for Pioneering Research Initiated by the Next Generation, The University of Tokyo

2022–2023 **WINGS-ABC Fellowship**, World-leading Innovative Graduate Study Program of Advanced Basic Science, The University of Tokyo

Experience

Grants and Funding

2025–2027 **JSPS Grant-in-Aid for Young Scientists (DC2)**, Grant No. 25KJ1036

Oct 2024 **JST SPRING-GX International Conference Grant (Lisbon)**, Grant No. JPMJSP2108

Mar 2024 **Intl. Conference Grant (Christchurch)**, Foundation for Promotion of Astronomy

Awards

2023 **Ichiko Commemorative Award**, Outstanding Master's Thesis Award, University of Tokyo

Accepted Observing Proposals

2025A **MOIRCS/Subaru**, PI: Yugo Kawai — *Confirmation of first orbital decay of a hot Jupiter around a low-mass star (0.5 nights)*

2024B **MAROON-X/Gemini (Subaru Time Exchange)**, PI: Yugo Kawai — *Obliquity measurement to search for protoplanetary disk misalignment (0.5 nights)*

Papers

Kawai, Y., N. Narita, A. Fukui, N. Watanabe, and S. Inaba (Feb. 2024). "The flipped orbit of KELT-19Ab inferred from the symmetric TESS transit light curves". In: *Monthly Notices of the Royal Astronomical Society* 528.1, pp. 270–280. DOI: 10.1093/mnras/stad3915. arXiv: 2312.11815 [astro-ph.EP].

Talks

Jul 2025 *Identifying hot Jupiters that arrived via disk migration*, Detection and Dynamics of Exoplanets, Coimbra, Portugal

May 2025 *Identifying hot Jupiters that arrived via disk migration*, Japan Geoscience Union Meeting, Chiba

Oct 2024 *The Potentially Decaying Orbit of an Ultra-Hot Jupiter*, Exoclock Annual Meeting, Lisbon

May 2023 *The flipped orbit of KELT-19Ab inferred from the symmetric TESS light curves*, JpGU Meeting, Chiba

— +3 additional oral presentations in domestic conferences

Posters

Mar 2024 *The flipped orbit of KELT-19Ab inferred from the symmetric TESS light curves*, Extreme Solar Systems V, Christchurch, New Zealand

Colloquia

Jul 2025 *Tracing the Tidal Footprints of Hot Jupiter Migration*, Geneva Observatory Exoplanet Seminar, Switzerland

Jun 2025 *Tracing the Tidal Footprints of Hot Jupiter Migration*, Subaru Seminar, Hawaii, USA

Feb 2024 *A hot Jupiter not easily explained with conventional high-eccentricity migration*, Nagoya University Theoretical Astrophysics Group, Japan

Languages

Japanese	Native	
English	Fluent	*Academic and professional use*
Python	Proficient	*For data analysis, modeling, and automation*