

# 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)
- 2017–2022 **B.A. in International Liberal Studies**, *Waseda University*, Tokyo, Japan  
**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)**, Japan Society for the Promotion of Science, The University of Tokyo
- 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

## 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].

— +15 additional co-authored paper as observer with MuSCAT instruments.

## 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, Japan

- Oct 2024 *The Potentially Decaying Orbit of an Ultra-Hot Jupiter*, Exoclock Annual Meeting, Lisbon, Portugal
- May 2023 *The flipped orbit of KELT-19Ab inferred from the symmetric TESS light curves*, JpGU Meeting, Chiba, Japan
- +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, Nagoya, Japan
- Dec 2023 *Observation as a tool to probe planet migration*, Komaba Science Club, Tokyo, Japan

## Grants and Funding

- 2025–2027 **JSPS Grant-in-Aid for Young Scientists (DC2)**, Grant No. 25KJ1036
- 2022–2024 **JASSO Scholarship**, Japan Student Service Organization
- Oct 2024 **JST SPRING-GX International Conference Grant (Lisbon)**, Grant No. JPMJSP2108
- Mar 2024 **Intl. Conference Grant (Christchurch)**, Foundation for Promotion of Astronomy

## 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**, PI: Yugo Kawai — *Obliquity measurement to search for proto-planetary disk misalignment (0.5 nights, Subaru Time Exchange)*

## Teaching

- 2024– **Astrophysics Lab**, Teaching Assistant, — *Astrophysics and data analysis using Python*.
- 2024 Fall **Undergraduate research program**, Teaching Assistant, — *Exoplanet photometric data analysis using Python*.

## Awards

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

## Languages

Japanese Native

English Fluent

Python Proficient

*Academic and professional use  
For data analysis, modeling, and automation*