

Yuto Kuwayama

Curriculum Vitae

Personal information

Date of birth 12 August 2001
Nationality Japan
Affiliation Theoretical Astrophysics, Department of Earth and Space Science, The University of Osaka, 1-1 Machikaneyama, Toyonaka, Osaka 560-0043, Japan
Email kuwayama@astro-osaka.jp

Research experience and Education

2025– Master course, The University of Osaka, Japan, Supervisor: Prof. Kentaro Nagamine
2021–2025 **Bachelor of Science (Physics)**, *The University of Osaka*, Japan.
Supervisor: Prof. Kentaro Nagamine
Thesis title: Exploring the Density Field that Forms a Quasar Overdensity at $z \sim 2$

Scientific talks & Presentation

Contributed talks

Sep. 2025 **Astronomical Society of Japan Autumn Annual Meeting 2025**, *Kaikyo Messe Shimonoseki, Yamaguchi*, Japan.
Exploring Extreme Quasar Overdensities at $z \sim 2$ by cosmological hydrodynamic simulation
Does Λ CDM model produce the Extreme Quasar Overdensity like “Cosmic Himalayas”?

July 2025 **Galaxy-IGM Workshop 2025**, *Hotel Sun Valley Nasu, Tochigi*, Japan.
How rare are the Extreme Overdensity of Quasars? Insight from 1-pt and 2-pt statistics
Using CROCODILE simulation

May 2025 **International Workshop on Galaxy Formation + AGORA in Asia 2025**, *Nakanoshima Center, the University of Osaka*, Japan.
How Rare Are the Cosmic Himalayas? Insights from Cosmological Simulations

Mar. 2025 **Elucidating the Material Circulation in the Early Universe**, *Komaba campus, The University of Tokyo*, Japan.
Exploring the Density Field that Forms a Quasar Overdensity at $z \sim 2$

School

Jun. 2025 **YITP International School - East Asian Meeting on Large Galaxy Surveys for Cosmology and Galaxy Formation**, *Masukawa Hall, Yukawa Institute for Theoretical Physics, Kyoto University (YITP)*, Japan.

Feb. 2025 **Spring school of N-body simulation**, *National Astronomical Observatory of Japan*,
Mitaka, Tokyo, Japan.

Languages

Japanese Native

English Basic