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EDUCATION	Ph.D. in Astronomy, University of British Columbia (UBC), Canada M.S. in Aerospace Science, Tsinghua University, China	2019 – 2023 2016 – 2019
RESEARCH POSITIONS	Project Research Fellow, National Astronomical Observatory of Japan, Japan <i>Collaborator: Prof. Eiichiro Kokubo</i>	Apr. 2024 – Now
	Visiting Scholar, Tsinghua University, China <i>Collaborators: Prof. Wei Zhu & Prof. Chris Ormel</i>	Jan. 2024 – Mar. 2024
	Graduate Research Associate, UBC, Canada <i>Advisor: Prof. Brett Gladman</i>	2019 – 2023
	Research Associate, Tsinghua University, China <i>Advisor: Prof. Junfeng Li</i>	2015 - 2019
GRANTS & FELLOWSHIPS	NAOJ Project Research Fellow Edwin S.H. Leong Fellow	2024 – Now 2020 – 2023
REFEREED PUBLICATIONS	As first author: <ol style="list-style-type: none">Dynamics of Binary Planets within Star Clusters Huang, Zhu & Kokubo. ApJL 975, L38 (2024)Primordial Orbital Alignment of Sednoids Huang, & Gladman. ApJL 962, L33 (2024)A Rogue Planet Helps Populate the Distant Kuiper Belt Huang, Gladman, Beaudoin, & Zhang. ApJL 938, L23 (2022)Free Inclinations for Transneptunian Objects in the Main Kuiper Belt Huang, Gladman, & Volk. ApJS 259, 54 (2022)Four-billion year stability of the Earth–Mars belt Huang, & Gladman. MNRAS 500, 1151 (2021)On the Instability of Saturn’s Hypothetical Retrograde Co-orbitals Huang, Li, Li, & Gong. MNRAS 488, 2543 (2019)Kozai-Lidov Mechanism inside Retrograde Mean Motion Resonances Huang, Li, Li, & Gong. MNRAS 481, 5401 (2018)Dynamic Portrait of the Retrograde 1:1 Mean Motion Resonance Huang, Li, Li, & Gong. AJ 155, 262 (2018) As contributing author: <ol style="list-style-type: none">Asteroid Kamo’oalewa’s journey from the lunar Giordano Bruno crater to Earth 1:1 resonance Jiao, Cheng, Huang, et al. Nature Astronomy 8, 819 (2024)OSSOS. XXIX. The Population and Perihelion Distribution of the Detached Kuiper Belt Beaudoin, Gladman, Huang, et al. PSJ 4, 145 (2023)Flip mechanism of Jupiter-crossing orbits in the non-hierarchical triple system Li, Lei, Huang, & Gong. MNRAS 502, 5584 (2021)Dynamics of retrograde 1/n mean motion resonances: the 1/-2, 1/-3 cases Li, Huang, & Gong. Astrophysics and Space Science 365, 165 (2020)A semi-analytic model for the study of 1/1 resonant dynamics of the planar elliptic restricted co-orbital problem Li, Huang, & Gong. Research in Astronomy and Astrophysics (2020)	

14. [Assess the Risk of Potentially Hazardous Asteroids through Mean Motion Resonance](#)
Li, **Huang**, & Gong. *Astrophysics and Space Science* 364, 78 (2019)
15. [Survey of asteroids in retrograde mean motion resonances with planets](#)
Li, **Huang**, & Gong. *A&A* 630, A60 (2019)
16. [Centaurs Potentially in Retrograde Co-orbit Resonance with Saturn](#)
Li, **Huang**, & Gong. *A&A* 617, A114 (2018)

SCIENCE TEAMS CLASSY: Classical and Large-A Solar System Survey 2022 - Now

- Dynamical classification & modelling of discovered TNOs

FOSSIL: Formation of the Outer Solar System: an Icy Legacy 2024 - Now

- Dynamical analysis of discovered objects & theoretical prediction

INVITED TALKS & SEMINAR Shanghai Astronomical Observatory, Exoplanet Science Seminar (virtual) Nov. 2024
 New Horizons Science Plenary Meeting (virtual) Aug. 2024
 NAOJ Seminar, Tokyo, JP May 2024
 DoA, Tsinghua, Beijing, CN: The Rogue Planet Hypothesis Mar. 2024
 DoA, Tsinghua, Beijing, CN: Dynamics of TNOs Under the Influence of a Rogue Planet Aug. 2023

CONFERENCES As the presenter:

1. A Rogue Planet Hypothesis for the Formation of the Outer Solar System
Huang, Gladman, & Hu. *Rogue Worlds 2024*, Osaka (2024)
2. Dynamics of Binary Planets with Star Clusters
Huang, Zhu, & Kokubo. *Dos + CfCA Workshop*, Kawaguchiko (2024)
3. Testing the Primordial Orbital Alignment Using Backward Integrations
Huang, Gladman, & Kokubo. *CfCA Annual Meeting*, Tokyo (2024)
4. Dynamics of Binary Planet within Star Clusters (Poster)
Huang, Zhu, & Kokubo. *JSPS Autumn*, Fukuoka (2024)
5. Dynamics of Binary Planet within Star Clusters
Huang, Zhu, & Kokubo. *DPS #56*, Boise (2024)
6. Primordial Orbital Alignment of Sednoids
Huang, Gladman, & Hu. *TNO 2024*, Taipei (2024)
7. Dynamical Evolution of JuMBOs within Stellar Clusters
Huang, Zhu, & Kokubo. *DDA #55*, Toronto (2024)
8. Primordial Orbital Clustering of Sednoids | [Video](#)
Huang, & Gladman. *DPS #55*, San Antonio (2023)
9. A Gigantic Icy Body Reservoir Produced by an Early Rogue Planet | [Abstract](#)
Huang, & Gladman. *ACM 2023*, Flagstaff (2023)
10. Steady State of a Planet-scattering Debris Disk
Huang, & Gladman. *DDA #54*, East Lansing (2023)
11. Effect of a Rogue Planet on the Early Solar System | [Video](#)
Huang, & Gladman. *DPS #54*, London (Ontario)(2022)
12. A Clearer View of the Primordial Kuiper Belt's inclination structure
Huang, Gladman, & Volk. *COSPAR #44*, Athens (2022)
13. A Rogue Planet Populated the Distant Kuiper Belt | [Video](#)
Huang, Gladman, & Beaudoin. *DDA #53*, New York (2022)
14. Dynamics of the Retrograde Co-orbital resonance
Huang, Li, Li, & Gong. *COOMOT*, Milan (2022)
15. Four Billion Year Stability of the Earth–Mars Belt
Huang, & Gladman. *DDA #51*, virtual meeting (2020)
16. Four Billion Year Stability of the Earth–Mars Belt
Huang, & Gladman. *DPS #52*, virtual meeting (2020)

	17. Primordial Stability of the Earth–Mars Belt Huang, & Gladman. 14th EPSC, virtual meeting (2020)	
	18. Dynamics of the Retrograde 1/1 Mean Motion Resonance Huang, Li, Li, & Gong. DDA #49, San Jose (2018)	
AWARDS AND SCHOLARSHIPS	Hayakawa Fund	2024
	Japan Foundation for Promotion of Astronomy Fund	2024
	Outstanding Graduate of Beijing	2019
	Scholarship of Takada for Excellent Students of Tsinghua	2018
	Second Prize in the 10th National Zhou Peiyuan Mechanics Competition	2015
	Yu Menglun Scholarship	2014
	Yu Menglun Award for Science & Innovation	2014
	China National Scholarship	2013
PRESS COVERAGE & OUTREACH	Science: Where did Earth's oddball 'quasi-moon' come from? Scientists pinpoint famed lunar crater	2024
	Space.com: Earth's weird 'quasi-moon' Kamo'oalewa is a fragment blasted out of big moon crater	2024
	Phys.org: Computer model helps support theory of asteroid Kamo'oalewa as ejecta from the moon	2024
	ScienceAlert: This Crater Could Be Where Earth's 'Second Moon' Broke Off The First One	2024
	AAS Nova: Sednoids: Echoes of a Rogue Planet in the Early Solar System?	2024
	Sky & Telescope: "Planet X" May Have Left Our Solar System Billions of Years Ago	2023
	MacMillan Space Centre: Ask An Astronomer - Lunar New Year of the Rabbit	2023
	New Scientist: A long-lost planet could explain unexpectedly distant asteroids	2022
PROFESSIONAL SERVICE	Referees for AJ, ApJ, MNRAS, A&A, and Icarus	
TEACHING	T.A. for Astro 310, UBC	2021
	T.A. for Astro 310 & 311, UBC	2020
	T.A. for Astro 101, UBC	2019
	T.A. for Vibration theory, Tsinghua University	2017
	T.A. for Theoretical mechanics, Tsinghua University	2016
STUDENTS	Qingru Hu (胡清茹), Tsinghua (Undergraduate Student, Astronomy)	2024 – Now
	Zhuoya Cao (曹卓雅), Tsinghua (Undergraduate Student, Physics)	2024 – Now
REFERENCES	Brett Gladman University of British Columbia Vancouver, BC, Canada gladman@astro.ubc.ca	Wei Zhu (祝伟) Tsinghua University Beijing, China weizhu@tsinghua.edu.cn
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	Kat Volk Planetary Science Institute Tucson, Arizona, USA kat.volk@gmail.com	Chris Ormel Tsinghua University Beijing, China chrisormel@tsinghua.edu.cn
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