Yukun Huang 黄宇坤

Tokyo 181-8588	· · · · · · · · · · · · · · · · · · ·	yukunhuang.com yhuang.astro@gmail.com	
EDUCATION	Ph.D. in Astronomy, University of British Columbia (UBC), Cana M.S. in Aerospace Science, Tsinghua University, China	da 2019 – 2023 2016 – 2019	
RESEARCH POSITIONS	Project Research Fellow, NAOJ, Japan Collaborator: Prof. Eiichiro Kokubo	Apr. 2024 – Now	
	Visiting Scholar, Tsinghua University, China Collaborators: Prof. Wei Zhu & Prof. Chris Ormel	Jan. 2024 – Mar. 2024	
	Graduate Research Associate, UBC, Canada Advisor: Prof. Brett	t Gladman 2019 – 2023	
	Research Associate, Tsinghua University, China Advisor: Prof. J	unfeng Li 2015 - 2019	
FELLOWSHIPS	NAOJ Project Research Fellow Edwin S.H. Leong Fellow	2024 - Now 2020 - 2023	
REFERED PUBLICATIONS	As first author: 1. Primordial Orbital Alignment of Sednoids Huang, & Gladman. ApJL, 962, L33 (2024)		
	2. A Rogue Planet Helps Populate the Distant Kuiper Belt Huang, Gladman, Beaudoin, & Zhang. ApJL, 938, L23 (20	022)	
	3. Free Inclinations for Transneptunian Objects in the Main K Huang, Gladman, & Volk. ApJS, 259, 54 (2022)	Cuiper Belt	
	4. Four-billion year stability of the Earth–Mars belt Huang, & Gladman. MNRAS, 500, 1151 (2021)		
	5. On the Instability of Saturn's Hypothetical Retrograde Co- Huang, Li, Li, & Gong. MNRAS, 488, 2543 (2019)	orbitals	
	 Kozai-Lidov Mechanism inside Retrograde Mean Motion Ro Huang, Li, Li, & Gong. MNRAS, 481, 5401 (2018) 	esonances	
	7. Dynamic Portrait of the Retrograde 1:1 Mean Motion Reso Huang, Li, Li, & Gong. AJ, 155, 262 (2018)	nance	
	As contributing author: 8. Asteroid (469219) Kamoʻoalewa's Intriguing Journey from Lunar Crater Giordano Bruno to Earth 1:1 Resonance Jiao, Cheng, Huang , et al. accepted for Nature Astronomy (2023)		
	9. OSSOS. XXIX. The Population and Perihelion Distribution of the Detached Kuiper Belt		
	Beaudoin, Gladman, Huang , et al. PSJ, 4, 145 (2023)	uchical tuinla arratam	
	10. Flip mechanism of Jupiter-crossing orbits in the non-hierarchical triple system Li, Lei, Huang, & Gong. MNRAS, 502, 5584 (2021)		
	11. 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 restricted co-orbital problem Li, Huang, & Gong. Research in Astronomy and Astrophys 		
	 Assess the Risk of Potentially Hazardous Asteroids through Mean Motion Resonance Li, Huang, & Gong. Astrophysics and Space Science, 364, 78 (2019) 		

	15. 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 • Dynamical classification & modelling of discovered TNOs	- Now			
PROFESSIONAL SERVICE	Referees for AJ, ApJ, MNRAS, Icarus				
PRESS COVERAGE	AAS Nova: Sednoids: Echoes of a Rogue Planet in the Early Solar System? Sky & Telescope: "Planet X" May Have Left Our Solar System Billions of Years Ago MacMillan Space Centre: Ask An Astronomer - Lunar New Year of the Rabbit New Scientist: A long-lost planet could explain unexpectedly distant asteroids 2024 2025 2026 2027				
INVITED TALKS		h 2024 t 2023			
CONFERENCES	As the speaker: 1. Primordial Orbital Clustering of Sednoids Video Huang, & Gladman. DPS #55, San Antonio, TX, US (2023)				
	 "The Base of the Iceberg": A Gigantic Icy Body Reservoir Produced by an Early Planet Abstract Huang, & Gladman. ACM 2023, Flagstaff, AZ, US (2023) 	Rogue			
	3. Steady State of a Planet-scattering Debris Disk Huang , & Gladman. DDA #54, East Lansing, MI, US (2023)				
	4. Effect of a Rogue Planet on the Early Solar System Video Huang, & Gladman. DPS #54, London, ON, Canada (2022)				
	5. A Clearer View of the Primordial Kuiper Belt's inclination structure Huang , Gladman, & Volk. COSPAR #44, Athens, Greece (2022)				
	6. A Rogue Planet Populated the Distant Kuiper Belt Video Huang , Gladman, & Beaudoin. DDA #53, Manhattan, NY, USA (2022)				
	7. Dynamics of the Retrograde Co-orbital resonance Huang, Li, Li, & Gong. COOMOT, Milan, Italy (2022)				
	8. Four Billion Year Stability of the Earth–Mars Belt Huang , & Gladman. DDA #51, virtual meeting (2020)				
	9. Four Billion Year Stability of the Earth–Mars Belt Huang, & Gladman. DPS #52, virtual meeting (2020)				
	10. Primordial Stability of the Earth–Mars Belt				
	Huang, & Gladman. 14th EPSC, virtual meeting (2020)11. Dynamics of the Retrograde 1/1 Mean Motion ResonanceHuang, Li, Li, & Gong. DDA #49, San Jose, CA, USA (2018)				
AWARDS AND SCHOLARSHIPS	Outstanding Graduate of Beijing Scholarship of Takada for Excellent Students of Tsinghua Second Prize in the 10th National Zhou Peiyuan Mechanics Competition Second Place in the 2nd "Space Innovative Cup" Spacecraft Design Competition Heilongjiang Province, Student of Distinction Yu Menglun Scholarship Yu Menglun Award for Science & Innovation HIT Student of Distinction China National Scholarship	2019 2018 2015 2014 2014 2014 2014 2013 2013			

14. Survey of asteroids in retrograde mean motion resonances with planets Li, **Huang**, & Gong. A&A, 630, A60 (2019)

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

REFERENCES Brett Gladman

University of British Columbia Vancouver, BC, Canada gladman@astro.ubc.ca

Wei Zhu

Tsinghua University Beijing, China weizhu@tsinghua.edu.cn

Aaron Boley

University of British Columbia Vancouver, BC, Canada acboley@phas.ubc.ca

Eiichiro Kokubo

NAOJ

Mitaka, Tokyo, Japan kokubo.eiichiro@nao.ac.jp

Chris Ormel

Tsinghua University Beijing, China

chrisormel@tsinghua.edu.cn

Junfeng Li

Tsinghua University Beijing, China

lijunf@mail.tsinghua.edu.cn