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- RESEARCH POSITIONS** Graduate Research Associate, University of British Columbia 2019 - Now  
*Advisor: Prof. [Brett Gladman](#)*
- Dynamics of the transneptunian region (Doctoral thesis)
- Research Associate, Tsinghua University 2015 - 2019  
*Advisors: Prof. [Junfeng Li](#) & Prof. [Shengping Gong](#)*
- CRTBP trajectory design using invariant manifolds (Senior thesis)
  - Dynamics of retrograde resonances (Master's thesis)
- FELLOWSHIPS** DiRAC Fellow at the University of Washington Starting in Sept. 2023
- REFEREED PUBLICATIONS** As first author:
1. [A Rogue Planet Helps Populate the Distant Kuiper Belt](#)  
**Huang**, Gladman, Beaudoin, & Zhang. ApJL, 938, L23 (2022)
  2. [Free Inclinations for Transneptunian Objects in the Main Kuiper Belt](#)  
**Huang**, Gladman, & Volk. ApJS, 259, 54 (2022)
  3. [Four-billion year stability of the Earth–Mars belt](#)  
**Huang**, & Gladman. MNRAS, 500, 1151 (2021)
  4. [On the Instability of Saturn’s Hypothetical Retrograde Co-orbitals](#)  
**Huang**, Li, Li, & Gong. MNRAS, 488, 2543 (2019)
  5. [Kozai-Lidov Mechanism inside Retrograde Mean Motion Resonances](#)  
**Huang**, Li, Li, & Gong. MNRAS, 481, 5401 (2018)
  6. [Dynamic Portrait of the Retrograde 1:1 Mean Motion Resonance](#)  
**Huang**, Li, Li, & Gong. AJ, 155, 262 (2018)
- As contributing author:
7. The Population and Perihelion Distribution of the Detached Kuiper Belt  
Beaudoin, Gladman, **Huang**, et al. accepted for PSJ (2023)
  8. [Flip mechanism of Jupiter-crossing orbits in the non-hierarchical triple system](#)  
Li, Lei, **Huang**, & Gong. MNRAS, 502, 5584 (2021)
  9. [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)
  10. [Survey of asteroids in retrograde mean motion resonances with planets](#)  
Li, **Huang**, & Gong. A&A, 630, A60 (2019)
  11. [Centaur Potentially in Retrograde Co-orbit Resonance with Saturn](#)  
Li, **Huang**, & Gong. A&A, 617, A114 (2018)
- CONFERENCES**
- “The Base of the Iceberg”: A Gigantic Icy Body Reservoir Produced by an Early Rogue Planet | [Abstract](#)  
**Huang**, & Gladman. ACM 2023, Flagstaff, AZ, US (2023)
  - Exploring Asteroid (469219) Kamo’oalewa’s Possible Origin from Lunar Crater Giordano Bruno.  
Jiao, Cheng, **Huang**, Asphaug, Gladman, Malhotra, Michel, Yu, & Baoyin. ACM 2023, Flagstaff, AZ, US (2023)
  - Steady State of a Planet-scattering Debris Disk  
**Huang**, & Gladman. DDA #54, East Lansing, MI, US (2023)

- Sednoid Creation by Scattered Rogue Planets  
Gladman, & **Huang**. DDA #54, East Lansing, MI, US (2023)
- Effect of a Rogue Planet on the Early Solar System | **Video**  
**Huang**, & Gladman. DPS #54, London, ON, Canada (2022)
- The Population and Perihelion Distribution of the Detached Kuiper Belt | **Video**  
Beaudoin, Gladman, & **Huang**. DPS #54, London, ON, Canada (2022)
- A Clearer View of the Primordial Kuiper Belt's inclination structure  
**Huang**, Gladman, & Volk. COSPAR #44, Athens, Greece (2022)
- A Rogue Planet Populated the Distant Kuiper Belt | **Video**  
**Huang**, Gladman, & Beaudoin. DDA #53, Manhattan, NY, USA (2022)
- Secular Free Inclinations in the Main Kuiper Belt | **Video**  
Gladman, **Huang**, & Volk. DDA #53, Manhattan, NY, USA (2022)
- Dynamics of the Retrograde Co-orbital resonance  
**Huang**, Li, Li, & Gong. COOMOT, Milan, Italy (2022)
- Four Billion Year Stability of the Earth–Mars Belt  
**Huang**, & Gladman. DDA #51, virtual meeting (2020)
- Four Billion Year Stability of the Earth–Mars Belt  
**Huang**, & Gladman. DPS #52, virtual meeting (2020)
- Primordial Stability of the Earth–Mars Belt  
**Huang**, & Gladman. 14th EPSC, virtual meeting (2020)
- Dynamics of the Retrograde 1/1 Mean Motion Resonance  
**Huang**, Li, Li, & Gong. DDA #49, San Jose, CA, USA (2018)

**SCIENCE TEAMS** CLASSY: Classical and Large-A Solar System Survey 2022 - Now  
 • Dynamical classification & modelling of discovered TNOs

**PRESS COVERAGE** **New Scientist**: A long-lost planet could explain unexpectedly distant asteroids 2022  
**MacMillan Space Centre**: Ask An Astronomer - Lunar New Year of the Rabbit 2023

**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

**PROFESSIONAL SERVICE** Referee for AJ, MNRAS

**REFERENCES**

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