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EDUCATION	Ph.D. candidate, Astronomy, University of British Columbia, Canada M.S. Aerospace Science, Tsinghua University, China B.S. Engineering Mechanics, Harbin Institute of Technology, China	2019 - Now 2016 - 2019 2012 - 2016
POSITIONS	Graduate Research Associate, University of British Columbia <i>Advisor: Prof. Brett Gladman</i> <ul style="list-style-type: none">• Dynamics of the transneptunian region (Doctoral thesis) Undergraduate & Graduate Student, Tsinghua University <i>Advisors: Prof. Junfeng Li & Prof. Shengping Gong</i> <ul style="list-style-type: none">• Trans-lunar trajectory design using invariant manifolds (Senior thesis)• Dynamics of retrograde resonances (Master's thesis)	2019 - Now 2015 - 2019
FELLOWSHIPS	Edwin S.H. Leong Fellow CSC Fellow	2020-2023 2019-2023
REFEREED PUBLICATIONS	As first author: <ol style="list-style-type: none">1. A Rogue Planet Helps Populate the Distant Kuiper Belt Huang, Gladman, Beaudoin, & Zhang. <i>ApJL</i>, 938, L23 (2022)2. Free Inclinations for Transneptunian Objects in the Main Kuiper Belt Huang, Gladman, & Volk. <i>ApJS</i>, 259, 54 (2022)3. Four-billion year stability of the Earth–Mars belt Huang & Gladman. <i>MNRAS</i>, 500, 1151 (2021)4. On the Instability of Saturn's Hypothetical Retrograde Co-orbitals Huang, Li, Li, & Gong. <i>MNRAS</i>, 488, 2543 (2019)5. Kozai-Lidov Mechanism inside Retrograde Mean Motion Resonances Huang, Li, Li, & Gong. <i>MNRAS</i>, 481, 5401 (2018)6. Dynamic Portrait of the Retrograde 1:1 Mean Motion Resonance Huang, Li, Li, & Gong. <i>AJ</i>, 155, 262 (2018) As contributing author: <ol style="list-style-type: none">7. The Population and Perihelion Distribution of the Detached Kuiper Belt Beaudoin, Gladman, Huang et al. submitted to <i>PSJ</i> (2022)8. Flip mechanism of Jupiter-crossing orbits in the non-hierarchical triple system Li, Lei, Huang, & Gong. <i>MNRAS</i>, 502, 5584 (2021)9. Dynamics of retrograde 1/n mean motion resonances: the 1/-2, 1/-3 cases Li, Huang, & Gong. <i>Astrophysics and Space Science</i>, 365, 165 (2020)10. A semi-analytic model for the study of 1/1 resonant dynamics of the planar elliptic restricted co-orbital problem Li, Huang, & Gong. <i>Research in Astronomy and Astrophysics</i> (2020)11. Assess the Risk of Potentially Hazardous Asteroids through Mean Motion Resonance Li, Huang, & Gong. <i>Astrophysics and Space Science</i>, 364, 78 (2019)12. Survey of asteroids in retrograde mean motion resonances with planets Li, Huang, & Gong. <i>A&A</i>, 630, A60 (2019)13. Centaur Potentially in Retrograde Co-orbit Resonance with Saturn Li, Huang, & Gong. <i>A&A</i>, 617, A114 (2018)	

CONFERENCES

1. Effect of a Rogue Planet on the Early Solar System | [Video](#)
Huang & Gladman. DPS #54, London, ON, Canada (2022)
2. The Population and Perihelion Distribution of the Detached Kuiper Belt | [Video](#)
Beaudoin, Gladman, **Huang**. DPS #54, London, ON, Canada (2022)
3. A clearer view of the primordial Kuiper Belt's inclination structure
Huang, Gladman, & Volk. COSPAR #44, Athens, Greece (2022)
4. A Rogue Planet Populated the Distant Kuiper Belt | [Video](#)
Huang, Gladman, & Beaudoin. DDA #53, Manhattan, NY, USA (2022)
5. Secular free inclinations in the main Kuiper Belt | [Video](#)
Gladman, **Huang**, & Volk. DDA #53, Manhattan, NY, USA (2022)
6. Dynamics of the retrograde co-orbital resonance
Huang, Li, Li, Gong. COOMOT, Milan, Italy (2022)
7. Four Billion Year Stability of the Earth–Mars Belt
Huang & Gladman. DDA #51, virtual meeting (2020)
8. Four Billion Year Stability of the Earth–Mars Belt
Huang & Gladman. DPS #52, virtual meeting (2020)
9. Primordial Stability of the Earth–Mars Belt
Huang & Gladman. 14th EPSC, virtual meeting (2020)
10. 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 rogue planet could explain unexpectedly distant asteroids” 2022

AWARDS AND SCHOLARSHIPS

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
Second Place in the 2nd “Space Innovative Cup” Spacecraft Design Competition	2014
Heilongjiang Province, Student of Distinction	2014
Yu Menglun Scholarship	2014
Yu Menglun Award for Science & Innovation	2014
HIT Student of Distinction	2013
China National Scholarship	2013

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 MNRAS

REFERENCES

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 Planetary Science Institute
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