# BENJAMIN IDINI

Department of Astronomy & Astrophysics, UC Santa Cruz

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Santa Cruz, CA 95064

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Website: [bidini.github.io] — LinkedIn: [benja-rodo] — Google Scholar: [Benjamin Idini]

#### Research Interests

Solar System Exploration  $\cdot$  Planetary Interiors and Evolution  $\cdot$  Ocean Worlds  $\cdot$  Tidal Interactions  $\cdot$  Extraterrestrial Seismology  $\cdot$  Planet Formation  $\cdot$  Gravity Radio Science  $\cdot$  Earthquake Mechanics  $\cdot$  Earthquake Ground Motion  $\cdot$  Tectonic Deformation

#### EDUCATION

### PhD in Planetary Science, Caltech

2022

"Earthquakes and the new paradigm of diluted cores in gas giant planets" (Advisor: David Stevenson)

MS in Geophysics, Caltech

2019

MS in Earthquake Engineering, Universidad de Chile

2016

"Curvas de atenuación para terremotos intraplaca e interplaca en la zona de subducción chilena" (Advisors: Fabián Rojas and Sergio Ruiz)

BS in Structural Engineering, Universidad de Chile

2013

#### ACADEMIC APPOINTMENTS

Vera Rubin Postdoctoral Fellow, UC Santa Cruz, CA
UC President's Postdoctoral Fellow, UC Santa Cruz, CA
Graduate R/T Assistant, Caltech, Pasadena, CA
Research Geophysicist, Universidad de Chile, Santiago, Chile
Mar. 2016 — June 2017

#### Manuscripts in Preparation

Idini, B. (2025). Stratification of the global oceans of Europa and Ganymede.

Idini, B. (2025). The bimodal extension of Jupiter's dilute core.

Sun, J. & **Idini**, **B.** (2025). Episodic heating of Europa driven by Jupiter's core evolution. Dallin, N. & **Idini**, **B.** (2025). Automatic crater identification on icy surfaces via deep learning.

#### Refereed Publications

- **16.** Yarza, R., et al., including **Idini, B.** (2025). Evolution of the ZTF SLRN-2020 star-planet merger. [arXiv:2507.05365]
- **15.** Park, R. S., et al., including **Idini**, **B.** (2025). Io's tidal response precludes a shallow magma ocean. Nature. [10.1038/s41586-024-08442-5]
- **14.** Tulekeyev, A., et al., including **Idini**, **B.** (2024). Constraints on the long-term existence of dilute cores in giant planets. The Planetary Science Journal, 5(8), 190. [10.3847/PSJ/ad6571]
- 13. Flores-Cuba, J., et al., including **Idini**, **B.** (2024). Mechanisms and seismological signatures of rupture complexity induced by fault damage zones in fully-dynamic earthquake cycle models. Geophysical Research Letters, 51(11), e2024GL108792. [10.1029/2024GL108792]

- **12.** Idini, B. & Nimmo, F. (2024). Resonant stratification in Titan's global ocean. The Planetary Science Journal, 5(1), 15. [10.3847/PSJ/ad11ef]
- 11. Idini, B., et al. (2024). Double distance dependence in high–frequency ground motion along the plate boundary in Northern Chile. Journal of South American Earth Sciences, 133. [10.1016/j.jsames.2023.104699]
- **10.** Howard, S., et al., including **Idini, B.** (2023). Jupiter's interior from Juno: Equation-of-state uncertainties and dilute core extent. Astronomy and Astrophysics, 672. [10.1051/0004-6361/202245625]
- 9. Idini, B. & Stevenson D.J. (2022). The gravitational imprint of an interior-orbital resonance in Jupiter-Io. The Planetary Science Journal, 3(4), 89. [10.3847/PSJ/ac6179]
- 8. Idini, B. & Stevenson D.J. (2022). The lost meaning of Jupiter's high–degree Love numbers. The Planetary Science Journal, 3(1), 11. [10.3847/PSJ/ac4248]
- 7. Idini, B. & Stevenson D.J. (2021). Dynamical tides in Jupiter as revealed by Juno. The Planetary Science Journal, 2(2), 69. [10.3847/PSJ/abe715]
- **6. Idini, B.** & Ampuero J-.P. (2020). Fault-zone damage promotes pulse-like rupture and back-propagating fronts via quasi-static effects. Geophysical Research Letters, 47(23), e2020GL090736. [10.1029/2020GL090736]
- 5. Erickson, B., et al., including **Idini**, **B.** (2020). The community code verification exercise for simulating sequences of earthquakes and aseismic slip (SEAS). Seismological Research Letters, 91(2A), 874-890. [10.1785/0220190248]
- **4.** Ross, Z., **Idini, B.**, et al. (2019). Hierarchical interlocked orthogonal faulting in the 2019 Ridgecrest earthquake sequence. Science, 366, 6463. [10.1126/science.aaz0109]
- **3.** Gurnis, M., et al., including **Idini**, **B.** (2019). Incipient subduction at the contact with stretched continental crust: The Puysegur Trench. Earth and Planetary Science Letters, 520, 212-219. [10.1016/j.epsl.2019.05.044]
- 2. Leyton, F., et al., including **Idini**, **B.** (2018). Empirical site classification of CSN network using strong-motion records. Seismological Research Letters, 89(2A), 512-518. [10.1785/0220170167]
- 1. Idini, B., et al. (2017). Ground motion prediction equations for the Chilean subduction zone, Bulletin of Earthquake Engineering, 15, 5. [10.1007/s10518-016-0050-1]

## INVITED SEMINARS AND COLLOQUIA

UC Davis, Earth and Planetary Science Department Seminar	April 30, 2025
Cornell University, Planetary Seminar	January 24, 2025
Cornell University, Astronomy Colloquium	January 23, 2025
Southwest Research Institute, Boulder CO Colloquium	October 29, 2024
San Francisco State University, Physics and Astronomy Colloquium	September 30, 2024
Lawrence Livermore National Laboratory, HEDS Seminar Series	September 19, 2024
UC Santa Cruz, Astronomy and Astrophysics Colloquium	May 15, 2024
Stanford University, Geophysics Seminar	May 9, 2024
UC Merced, Physics Colloquium	February 9, 2024
UC Berkeley, Earth and Planetary Science Department Seminar	January 18, 2024
MIT, Earth, Atmospheric, and Planetary Science Department Lecture	Series May 17, 2023
UC Santa Cruz, Geophysical and Astrophysical Fluid Dynamics Semin	nar May 12, 2023

UC Davis, Earth and Planetary Science Department Seminar	April 19, 2023
UC Santa Cruz, EPS Department Whole Earth Seminar	April 18, 2023
UC San Diego & San Diego State University, Astrophysics Seminar	March 1, 2023
UC San Diego, Scripps Institution of Oceanography, IGPP Seminar	February 28, 2023
UC Berkeley, Center for Integrative Planetary Science Seminar	February 1, 2023
Rice University, EEPS Department Colloquium	January 19, 2023
UCLA, Earth, Planetary, and Space Sciences Department Colloquium	October 11, 2022
UC Santa Cruz, Astronomy and Astrophysics Planetary Lunch Seminar	November 7, 2022
Universidad de Chile, Department of Geophysics Seminar (virtual)	June 17, 2022
Caltech, DIX Planetary Science Seminar	April 27, 2021
Caltech, DIX Planetary Science Seminar	June 2, 2020

#### SOFTWARE PUBLICATIONS

- 2. Idini, B (2023). Interiorize: Simple Models of Planetary Tides (github.com/bidini/interiorize).
- 1. Luo, Y., Ampuero, J.P., et al., including Idini, B. (2017). QDYN: a Quasi-DYNamic earthquake simulator (v1. 1). Zenodo.(doi: 10.5281/zenodo. 322459).

## SELECTED CONFERENCE PRESENTATIONS (O: ORAL, P: POSTER)

- **16.** H-He and the extension of Jupiter's dilute core (invited), Warm Dense Matter Workshop, Santa Fe NM, 2025 (O).
- 15. Stable stratification in the global oceans of Europa and Ganymede, AGU Fall Meeting, Washington DC, 2024 (O).
- 14. Resonant stratification in Titan's global ocean and other large ocean worlds, AGU Fall Meeting, San Francisco CA, 2023 (O).
- 13. The Case for SmallSats: Enhancing the Uranus Mission, LPI Contributions 2808:8158, Uranus Flagship: Investigations and Instruments for Cross-Discipline Science Workshop, Pasadena CA, 2023 (P).
- 12. Resonant stratification in Titan and other icy satellites with global oceans, DPS-EPSC Annual Meeting, San Antonio TX, 2023 (O).
- 11. Future investigations of ocean dynamics in ocean worlds using orbiting spacecraft, Bay Area Planetary Science Conference, Santa Cruz CA, 2023 (O).
- 10. A tale of two planets: dilute cores in Jupiter and Saturn from in-situ spacecraft observations, UC Santa Cruz Postdocs Association Symposium, Santa Cruz CA, 2023 (O).
- **9.** A tale of two planets: dilute cores in Jupiter and Saturn from in-situ spacecraft observations, UC PPFP Annual Meeting, Lake Arrowhead CA, 2023 (O).
- 8. The gravitational imprint of dynamical tides in Jupiter (invited), AGU Fall Meeting, Chicago IL, 2022 (O).
- 7. Tidal constraints on the radial extension and static stability of Jupiter's dilute core, AGU Fall Meeting, New Orleans LA, 2021 (P).
- **6.** Dynamical tides in the Jovian System as revealed by Juno, AGU Fall Meeting, remote, 2020 (P).
- 5. The first three days of the 2019 Ridgecrest earthquake sequence, SCEC Annual meeting, Palm Springs CA, 2019 (P).

- 4. A Bayesian Image of the 2017 Kermanshah Seismic Sequence in the Northwestern Zagros, AGU Fall Meeting, Washington DC, 2018 (O).
- 3. Rupture Complexity Promoted by Damaged Fault Zones in Earthquake Cycle Models. In AGU Fall Meeting, New Orleans LA, 2017 (P).
- 2. Empirical dynamic amplification factors for sites based on seismic noise, 16th World Conference on Earthquake Engineering, Santiago, Chile, 2017 (O).
- 1. Ground motion prediction equations for the Chilean subduction zone, 2nd Geophysical Signatures of Earthquakes and Volcanoes - 2GSEV, Santiago, Chile, 2016 (P).

#### STUDENTS SUPERVISED

Jasmine Sun, Brown University (NASA ICONS)	Summer 2025
Europa's orbital voyage and the imprints it left on its ice shell	
Dallin Nelson, Southern Utah University undergraduate (NASA ICONS)	2024 - Present
Dating Europa's terrain with deep learning	
Tyler Yuen, San Jose State University undergraduate (NASA ICONS)	Summer 2024
Tidal modeling of Europa's ocean	
Richard Truong, San Francisco State University undergraduate (Lamat)	2023 — Present
Planet engulfment and stellar structure	
Rafael Cottom, UC Santa Cruz undergraduate	2024 — Present
Thermomechanical modeling of Europa's ice shell	
Diego González, University of Chile undergraduate (co-sup. with F. Rojas	2016 — 2017
Ground motion spectra of earthquakes in Chile	•

PLANETARY EXPLORATION	
Inspiring Clipper: Opportunities for Next-ge	neration Scientists, Mentor
NASA	2024 — Present
	United States
Juno Mission, Interior Working Group Cocha	air
NASA	September 2024 — Present
	United States
Europa Clipper Mission, Science Team Affilia	ate
NASA	April 2023 — Present
	United States
Juno Mission, Science Team Member	
NASA	January 2020 — Present
	United States
Keck Institute for Space Studies Affiliate	

#### Keck Institute for Space Studies Affiliate

January 2019 — Present Caltech – Jet Propulsion Laboratory United States

#### KISS Report: Determining the Interior Structure of Uranus

Keck Institute for Space Studies – Caltech/JPL September 11-15, 2023 Pasadena, CA

#### Mission Design: Planetary Science Summer School

May 2022 — Aug 2022 NASA – Jet Propulsion Laboratory

Magnus G. Langseth Transoceanic Research Vessel, Science Crew

United States

Lamont-Doherty Earth Observatory March 2018 Puysegur Trench, Pacific Ocean MENTORSHIP, LEADERSHIP, AND OUTREACH Guide in La Noche de las Estrellas outreach event, Lick Observatory 2025 Primary convener at AGU Fall Meeting, session: The Gas Giants: Atmosphere, Interior, and Evolution of Jupiter and Saturn 2025 Primary convener at DPS-EPSC joint meeting, session: Giant Planet Interiors, Atmospheres, and Evolution 2025 Mentor in Lamat undegraduate research program, UC Santa Cruz 2023 — Present Speaker in La Noche de las Estrellas outreach event, San Francisco State University 2024 Primary convener at AGU Fall Meeting, session: Giant Planet Interiors 2022 - 2024Panelist at Europa Clipper's educational event for high school students, Puerto Rico 2023 2023 Guide in La Noche de las Estrellas outreach event, Lick Observatory Mentor in the Eugene Cota-Robles Fellowship program, UC Santa Cruz 2022 -2023 Invited speaker at NASA's Hyperwall Exhibition, AGU Fall Meeting, Chicago IL 2022 Invited speaker at Science Journeys, Caltech (youtube.com/user/caltech) 2021 2022 Mentor in the EPS/ESCI Undergraduate program, UC Santa Cruz 2022 Speaker in Urban Math Collaborative program, Long Beach Unified School District 2021 Host in Caltech's Astronomía en el Bar (Astronomy on tap hosted in Spanish; voutube.com/c/CaltechAstro) 2021 Mentor in Caltech's International Graduate Student Buddy Program 2020 - 2021Judge in Caltech's Summer Undergraduate Research poster competition 2020 -2021 2018 Panelist at Science for March Seismological Laboratory booth, Caltech 2014 Director in Student Federation Board, Universidad de Chile Director in Engineering Student Council Board, Universidad de Chile 2013 Grants, Honors, and Awards NASA's Europa Clipper ICONS undergraduate research mentor (\$18, 189 USD) 2025 NASA's Juno mission subcontract (\$146,039 USD) 2025 2024 NASA's Juno mission subcontract (\$65,815 USD) Vera Rubin Postdoctoral Fellowship, UC Santa Cruz (\$55,620 USD) 2024 NASA's Europa Clipper ICONS undergraduate research mentor (\$15,017 USD) 2024 Travel award, EPSC-DPS joint meeting (\$2,000 USD) 2023 Travel award, USRA-LPI Uranus Flagship Workshop (\$2,500 USD) 2023 2022 Travel award, NASA Outer Planets Assessment Group (\$1,000 USD) UC President's Postdoctoral Fellowship (\$552,760 USD) 2022 AGU Outstanding Student Presentation Award (\$500 USD) 2021 Division of Geological and Planetary Sciences Fellowship, Caltech (\$70,000 USD) 2017 Highest Distinction Major Graduate, Universidad de Chile 2016 CONICYT Master of Science Fellowship, Ministry of Education, Chile (\$17,000 USD) 2014 Bicentenario Scholarship, Ministry of Education, Chile (\$10,000 USD) 2012

**TOTAL:** \$956, 440 USD

## TEACHING EXPERIENCE

Instructor of Record	
Overview of the Universe, UC Santa Cruz	January 6 — February 7, 2025
Invited Guest Lecturer	
Introduction to the Solar System, UC Merced	February 9, 2024
Physics of Planetary Systems, UC Santa Cruz	October 31, 2024
Research Practicum for Astrophysics, UC Santa Cruz	November 5-7, 2024
Research Practicum for Astrophysics, UC Santa Cruz	October 28-30, 2025
Teaching Assistant	
Planetary Physics, Caltech	2022
Planetary Structure and Evolution, Caltech	2021
Geodynamics, Caltech	2020
Freshman Seminar: Earthquakes, Caltech	2019
Advanced Structural Dynamics, Universidad de Chile	2015
Seismic Design of Structures, Universidad de Chile	2015
Professional Organizations	
1 ROFESSIONAL ORGANIZATIONS	
American Astronomical Society (AAS)	2023 — Present
Society for Advancement of Chicanos/Hispanics and Native	
(SACNAS)	2021 — Present
American Geophysical Union (AGU)	2017 — Present
Appearances in Press and Media	
Podcast episodes	plorando la Luna de Júpiter.
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No Magma Ocean For Io, Jupiter's Volcano-Covered Moon, Arielle F	rommer, Sky &
Telescope	December 20, 2024
Jupiter's Moon Io Doesn't Have An Ocean Of Lava, Scientists Say, J	lamie Carter, Forbes
	December 15, 2024
Image of 'violent' earthly phenomenon captured on Jupiter, Ariana I	Bindman, SFGATE
	June 20, 2023
#SoCaltech: Benjamin Idini, Caltech Magazine	August 11, 2022
Universal Languages, Lori Dajose, Caltech Magazine	November 29, 2021
The tides of Jupiter can help scientists understand the history of the	Solar System, Passant
Rabie, Inverse Magazine	May $5, 2021$
Weird 'boomerang' earthquake detected under the Atlantic Ocean, N	Iaya Wei-Haas,
National Geographic	August 10, 2020
California: July earthquake caused fault to move for first time on rec	
Guardian	October 18, 2019
Unprecedented movement detected on California earthquake fault ca	-
Rong-Gong Lin II, LA Times	October 17, 2019
Se detecta movimiento sin precedentes en una falla sísmica en Califo	• •
un temblor de 8.0, Rong-Gong Lin II, The San Diego Union-Tribune	*
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Tyler Yuen Explores Europa (From a Distance), Cassie Myers, SJSU November 4, 2024	News Center
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