




## Gregor Steinbrügge

Postdoctoral Research Fellow, Geophysics

 Curriculum Vitae available Online

### Bio

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#### BIO

I am a planetary scientist and my research focuses on geophysics, geodesy and scientific instrumentation for future space missions. I received my M.S. degree in physics from the Free University Berlin, Germany in 2013 and I completed my Ph.D. at the Institute for Geodesy and Geoinformation Science, TU Berlin, Germany in 2018. My thesis on tidal interactions across the Solar System was completed in collaboration with the Institute of Planetary Research at the German Aerospace Center (DLR). I am currently a Postdoc at the Department of Geophysics at Stanford University. I am an affiliate of the REASON (Radar for Europa Assessment and Sounding: Ocean to Near-surface) instrument on the Europa Clipper mission. I am further affiliated with the BepiColombo Laser Altimeter (BELA) on the BepiColombo mission, and the Ganymede Laser Altimeter (GALA) on the Jupiter Icy Moons Explorer (JUICE). My current research is on tidal interactions of bodies in our Solar System, ice geophysics, as well as radar and laser geodesy.

#### PROFESSIONAL EDUCATION

- M.S., Free University Berlin , Physics (2013)
- Ph.D., Technical University Berlin , Geodesy (2018)

#### STANFORD ADVISORS

- Dustin Schroeder, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **The surface roughness of Europa derived from Galileo stereo images** *ICARUS*  
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2018; 123 (10): 2760–72
- **The performance of the BepiColombo Laser Altimeter (BELA) prior launch and prospects for Mercury orbit operations** *PLANETARY AND SPACE SCIENCE*  
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2018; 159: 84–92
- **The reference frames of Mercury after the MESSENGER mission** *JOURNAL OF GEODESY*  
Stark, A., Oberst, J., Preusker, F., Burmeister, S., Steinbruegge, G., Hussman, H.  
2018; 92 (9): 949–61
- **Science Objectives of the Ganymede Laser Altimeter (GALA) for the JUICE Mission** *Transactions of the Japan Society for Aeronautical and Space Sciences, Aerospace Technology Japan*  
Kimura, J., Hussmann, H., Kamata, S., Matsumoto, K., Oberst, J., Steinbrügge, G., Stark, A., Gwinner, K., Oshigami, S., Namiki, N., Lingenauber, K., Enya, K., Kuramoto, et al  
2018; 17: 234-243
- **Assessing the potential for measuring Europa's tidal Love number h2 using radar sounder and topographic imager data** *Earth and Planetary Science Letters*  
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