

# JUNJIE “JJ” DONG

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## EDUCATION

2017-present: Harvard University, Ph.D. in Earth and Planetary Sciences  
2014-2017: University of Michigan, B.S. in Earth and Environmental Sciences, with honors

## HONORS AND AWARDS

2019: Goldschmidt Planetary Science Grant, Geochemical Society/NASA  
2018: Best Student Presentation Award, Consortium for Materials Properties Research in Earth Sciences (COMPRES) 2018 Annual Meeting  
2017-2019: Peirce Fellowship, Harvard Univ. Graduate School of Arts and Sciences (GSAS)  
2017: Undergraduate Academic Excellence Award, Univ. Michigan Earth & Environ. Sci.  
2017: Best Poster Award, "Origin and Evolution of Deep Primordial Reservoirs" Winter School at Kusatsu, Japan  
2016: Turner Undergraduate Award, Univ. Michigan Earth & Environ. Sci.  
2015-2016: Angell Scholar, Univ. Michigan

## PUBLICATIONS

K. Daviau, R. A. Fischer, M. C. Brennan, **J. Dong**, T.-A. Suer, S. Couper, Y. Meng, V. B. Prakapenka, J. Geophys. Res. Solid Earth, 2020: Equation of state of TiN at high pressures and temperatures: A possible host for nitrogen in planetary mantles (submitted).  
**J. Dong**, R. A. Fischer, L. P. Stixrude, C. Lithgow-Bertelloni, 2020: The volume of Earth's early oceans constrained by temperature-dependent mantle water storage capacity (submitted).  
J. Li, F. Zhu, J. Liu, **J. Dong**, Carbon in Earth's Interior (AGU Geophysical Monograph 249, Ch. 15), 2020: Reactive preservation of carbonate in Earth's mantle transition zone.  
D. Zhou, **J. Dong**, Y. Si, F. Zhu, J. Li, Minerals, 2020: Melting curve of potassium chloride from *in situ* ionic conduction measurements.  
F. Zhu, J. Li, J. Liu, **J. Dong**, Z. Liu, PNAS, 2019: Metallic iron limits silicate hydration of Earth's transition zone.  
**J. Dong**, J. Li, F. Zhu, Front. Earth Sci., 2019: Wetting behavior of iron-carbon melt in silicates at mid-mantle pressures with implications for the Earth's deep carbon cycle.  
**J. Dong**, J. Li, F. Zhu, Z. Li, R. Farawi, Am. Min., 2019: Melting curve minimum of barium carbonate BaCO<sub>3</sub> near 5 GPa.

## SERVICE AND OUTREACH

2019-2020: Chair, Student and Postdoc Committee, COMPRES  
2018-2019: Member, Student and Postdoc Committee, COMPRES  
2018-2019: Organizer, Solid Earth Graduate Student Lunch Seminar, Harvard Earth & Planet. Sci.