

ROGER R. FU

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APPOINTMENTS

2022 – present John L. Loeb Associate Professor, Harvard University
2017 – 2022 Assistant Professor, Harvard University
2015 – 2017 Research Associate, American Museum of Natural History
2015 – 2017 Postdoctoral Fellow, Lamont-Doherty Earth Observatory
2015 – 2017 Visiting Assistant Professor, Harvard University

EDUCATION

2011 – 2015 Massachusetts Institute of Technology
Department of Earth, Atmospheric, and Planetary Sciences
Advisor: Benjamin P. Weiss
2005 – 2009 Harvard University
B. A. Earth and Planetary Sciences and Astrophysics (Magna cum Laude)

AWARDS AND FELLOWSHIPS

2022 Alfred P. Sloan Foundation Research Fellow
2021 William F. Milton Fund
2021 Star-Friedman Challenge for Promising Scientific Research
2020 William Gilbert Award of the American Geophysical Union: Geomagnetism,
Paleomagnetism, and Electromagnetism Section
2019 Lemann Brazil Research Fund
2019 NSF CAREER Grant
2015 Ninninger Meteorite Award
2015 Lamont-Doherty Earth Observatory Post-doctoral Fellowship
2013 MIT EAPS Student Research Grant
2012 LPI Career Development Award
2011 MIT Grayce B. Kerr Fellowship
2009 Harvard Hoopes Prize for Outstanding Senior Thesis
2009 NSF Graduate Research Fellowship
2009 Harvard Frederick Sheldon Post-Graduate Travel Fellowship
2009 Fulbright Grant for Chile (applicant declined)
2006 Harvard College Research Program Grant

Due to substantive disruptions to scholarship, teaching and advising, and service for all FAS tenure-track faculty resulting from the COVID-19 pandemic, Harvard University delayed my associate review by one year.

PEER REVIEWED PUBLICATIONS (* denotes group member)

Articles: 71

Total citations: 3317

H-index: 30

(as of Jan 23, 2024)

1. A. Mittelholz, S.C. Steele*, **R.R. Fu**, C.L. Johnson, R.J. Lillis, G. Stucky de Quay (*in press*) Magnetic field signatures of craters on Mars. *Geophys. Res. Lett.*
2. N. Strikís, R. Buarque, F.W. Cruz, J.P. Bernal... **R.R. Fu**, et al. (*in press*) Modern anthropogenic drought in Central Brazil unprecedented during last 700 years. *Nat. Comm.*
3. **R.R. Fu**, S.C. Steele, J.B. Simon, R. Teague, J. Najita, D. Rea. (2023) Implications for chondrule formation regions and solar nebula magnetism from statistical reanalysis of chondrule paleomagnetism. *Planet. Sci. J.* 4, 151.
4. S.C. Steele*, **R.R. Fu**, M.W.R. Volk*, T.L. North, A.R. Brenner*, G.S. Collins, T.M. Davison, A.R. Muxworthy. (2023) Paleomagnetic evidence for a long-lived potentially reversing martian dynamo at ~3.9 Ga. *Sci. Adv.* 9, eade9071. [Science Magazine Article](#), [Harvard Gazette Article](#).
5. **R.R. Fu**, B.A. Maher, J. Nie, P. Gao, T. Berndt, E. Folsom*, T. Cavanaugh. (2023) Pinpointing the mechanism of magnetic enhancement in modern soils using high-resolution magnetic field imaging. *Geochem. Geophys. Geosyst.* 24, e2022GC010812.
6. R. Taylor, S. Reddy, D. Saxey, W. Rickard, F. Tang, C. Borlina, **R.R. Fu**, et al. (2023) Direct age constraints on the magnetism of Jack Hills zircon. *Sci. Adv.* 9, eadd1511.
7. T.L. North, G.S. Collins, T.M. Davison, A.R. Muxworthy, S.C. Steele*, **R.R. Fu** (2023) The heterogeneous response of martian meteorite Allan Hills 84001 to planar shock. *Icarus* 390, 115322.
8. A.R. Brenner*, **R.R. Fu**, A.R.C. Kylander-Clark, G.J. Hudak, B.J. Foley. (2022) A record of plate motion and a geomagnetic reversal at 3.25 Ga. *PNAS* 119, e2210258119. Also see: [Harvard Gazette Article](#). [Boston Globe Article](#). [Tech Times Article](#). [Science Times Article](#). [BBC Podcast](#).
9. S.W. Courville, J.G. O'Rourke, J.C. Castillo-Rogez, **R.R. Fu**, et al. (2022) Magnetization of carbonaceous asteroids by nebular fields and the origin of magnetized chondrites. *Nat. Astro.* 6, 1387.
10. M.W.R Volk*, **R.R. Fu**, R. Trubko*, P. Kehayias*, D.R. Glenn*, E.A. Lima. (2022) QDMLab: A MATLAB toolbox for analyzing quantum diamond microscope (QDM) magnetic field maps. *Comput. Geosci.* 167, 105198.
11. Y. Zhang, N.L. Swanson-Hysell, M.S. Avery, **R.R. Fu**. (2022) High geomagnetic field intensity recorded by anorthosite xenoliths requires a strongly powered late Mesoproterozoic geodynamo. *Proc. Natl. Acad. Sci. USA* 119, e2202875119. Also see: [EOS Article](#).
12. J. Biasi, J.L. Kirschvink, **R.R. Fu** (2021) Characterizing the geomagnetic field at high southern latitudes: Evidence from the Antarctic Peninsula. *J. Geophys. Res.: Solid Earth* 126, e2021JB023273.
13. L.V. de Groot, K. Fabian, A. Béguin, M.E. Kesters, D. Cortés-Ortuño, **R.R. Fu**, C.M.L. Jansen, R.J. Harrison, T. van Leeuwen, A. Barnhoorn. (2021) Micromagnetic Tomography for Paleomagnetism and Rock-Magnetism. *J. Geophys. Res.: Solid Earth*. 126, e2021JB022364.
14. D. Thallner, A.J. Biggin, P.J.A. McCausland, **R.R. Fu**. (2021) New paleointensities from the Skinner Cove Formation, Newfoundland, suggest a changing state of the geomagnetic field at the Ediacaran-Cambrian transition. *J. Geophys. Res.: Solid Earth*. 126, e2021JB022292.
15. **R.R. Fu**, M.W.R. Volk*, D. Bilardello, G. Lesur, O. Ben Dor* (2021) The fine-scale magnetic history of the Allende meteorite: Implications for solar nebula structure. *AGU Adv.* 2, e2021AV000486. Also see: [AGU Editor Highlight](#). [AGU Viewpoint Article](#).

16. R. Ebadi, A. Mathur, E.H. Tanin, N.D. Tailby, M.C. Marshall, A.Ravi, R. Trubko*, **R.R. Fu**, D.F. Phillips, S. Rajendran, R.L. Walsworth. (2021) Ultra-heavy dark matter search with electron microscopy of geological quartz. *Phys. Rev. D.* 104, 015041.
17. C.I.O. Nichols, J.F.J. Bryson, R.D. Cottrell, **R.R. Fu**, R.J. Harrison, J. Herrero-Albillos, F. Kronast, J.A. Tarduno, B.P. Weiss (2021). A time-resolved paleomagnetic record of Main Group Pallasites: Evidence for a large-cored, thin-mantled parent body. *J. Geophys. Res.: Planets.* 126, 2021JE006900
18. **R.R. Fu**, N. Drabon, M. Wiedenbeck, A.R. Brenner*, D.R. Lowe, C.S. Borlina (2021) Paleomagnetism of 3.5-4.0 Ga zircons from the Barberton Greenstone Belt, South Africa. *Earth Planet. Sci. Lett.* 567, 116999.
19. M.W.R. Volk*, **R.R. Fu**, J.M.D. Day, A. Mittelholz (2021) Paleointensity and rock magnetism of martian nakhlite meteorite Miller Range (MIL) 03346: Evidence for intense small scale crustal magnetization on Mars. *J. Geophys. Res.: Planets.* 126, 2021JE006856.
20. **R.R. Fu**, K. Hess*, P. Jaqueto, T. Kukla, R.I.F. Trindade, N.M. Stríkis, V.F. Novello, F.W. Cruz, O. Ben Dor* (2021) High-resolution environmental magnetism using the quantum diamond microscope (QDM): Application to a tropical speleothem. *Front. Earth Sci.* 8, 604505. Also see: [Elements Article](#).
21. B.P. Weiss, X.-N. Bai, **R.R. Fu** (2021) History of the Solar Nebula from Meteorite Paleomagnetism. *Sci. Adv.* 7, eaba5967.
22. R.S. Park, A.S. Konopliv, A.I. Ermakov, J.C. Castillo-Rogez, **R.R. Fu**, et al. (2020) Evidence of non-uniform crust of Ceres from Dawn's high-resolution gravity data. *Nat. Astro.* 4, 748-755. Also see: [Phys.org Article](#).
23. **R.R. Fu**, E.A. Lima, M.W.R. Volk*, R. Trubko* (2020) High-resolution moment magnetometry with the quantum diamond microscope. *Geochem. Geophys. Geosyst.* 21, e2020GC009147.
24. D.L. Schrader, K. Nagashima, J. Davidson, T.J. McCoy, R.C. Oglione, **R.R. Fu** (2020) Outward migration of chondrule fragments in the early Solar System: O-isotopic evidence for rocky material crossing the Jupiter Gap?. *Geochim. Cosmochim. Acta* 282, 133-155.
25. **R.R. Fu**, P. Kehayias*, B.P. Weiss, D.L. Schrader, X.-N. Bai, J. B. Simon (2020) Weak magnetic fields in the outer solar nebula recorded in CR chondrites. *J. Geophys. Res. Planets.* 125, e2019JE006260.
26. A.R. Brenner*, **R.R. Fu**, D.A.D. Evans, A.V. Smirnov, R. Trubko*, I. Rose (2020) Paleomagnetic evidence for modern-like plate motion velocities at 3.2 Ga. *Sci. Adv.* 6, eaaz8670. Also see: [Highlight in Science Magazine](#). [National Geographic Article](#). [NPR Shortwave Podcast](#). [Harvard Gazette Article](#). [CNN Article](#).
27. C.S. Borlina, B.P. Weiss, E.A. Lima... **R.R. Fu**, et al. (2020) Re-evaluating the evidence for a Hadean-Eoarchean dynamo. *Sci. Adv.* 6, eaav9634. Also see: [Science Daily Article](#).
28. C. O'Neill, S. Marchi, W. Bottke, **R.R. Fu** (2020) The role of impacts on Archaean tectonics. *Geology* 48, 174-178.
29. **R.R. Fu**, D.V. Kent, S.R. Hemming, P. Gutiérrez, J.R. Creveling (2020) Testing the occurrence of Late Jurassic true polar wander using the La Negra volcanics of northern Chile. *Earth Planet. Sci. Lett.* 529, 115835.
30. E.V. Levine, M.J. Turner, P. Kehayias*, C.A. Hart, N. Langellier, R. Trubko*, D.R. Glenn*, **R.R. Fu**, R.L. Walsworth (2019) Principles and techniques of the quantum diamond microscope. *Nanophotonics* 8, 1945-1973. (Physics convention for author order: Walsworth and Fu are paper PIs).
31. J.G. O'Rourke, J. Buz, **R.R. Fu**, R.J. Lillis (2019) Detectability of remanent magnetism in the crust of Venus. *Geophys. Res. Lett.* 46, 5768-5777.
32. **R.R. Fu**, J.L. Kirschvink, N. Carter, O.C. Mazariegos, G. Chigna, G. Gupta, M. Grappone (2019) Knowledge of magnetism in ancient Mesoamerica: Precision measurements of the potbelly

sculptures from Monte Alto, Guatemala. *J. Archaeol. Sci.* 106, 29-36. Also see: [Smithsonian Magazine Article](#). [Harvard Gazette Article](#).

33. J.C. Castillo-Rogez, M.A. Hesse, M. Formisano, H. Sizemore, M.T. Bland, A.I. Ermakov, **R.R. Fu** (2019) Conditions for the long-term preservation of a deep brine reservoir in Ceres. *Geophys. Res. Lett.* 46, 1963-1972.
 34. F. Tang, R.J.M. Taylor, J.F. Einsle, C.S. Borlina, **R.R. Fu**, B.P. Weiss, H.M. Williams *et al.* (2018) Secondary magnetite in ancient zircon precludes analysis of the Hadean geodynamo. *Proc. Natl. Acad. Sci. USA* 201811074.
 35. D.L. Schrader, **R.R. Fu**, S.J. Desch, J. Davidson. (2018) The background temperature of the protoplanetary disk within the first four million years of the Solar System. *Earth Planet. Sci. Lett.* 504, 30-37.
 36. J. Castillo-Rogez, M. Neveu, H.Y. McSween, **R.R. Fu**, M.J. Toplis, T.H. Prettyman. (2018) Insights into Ceres's evolution from surface composition. *Meteor. Planet. Sci.* 53, 1820-1843.
 37. **R.R. Fu**, D.V. Kent. (2018) Anomalous Late Jurassic motion of the Pacific Plate with implications for true polar wander. *Earth Planet. Sci. Lett.* 490, 20-30.
 38. B.P. Weiss, **R.R. Fu**, J.F. Einsle, D.R. Glenn*, P. Kehayias*, E.A. Bell *et al.* (2018) Secondary magnetic inclusions in detrital zircons from the Jack Hills, Western Australia, and implications for the origin of the geodynamo. *Geology* 46, 427-430.
 39. **R.R. Fu**, B.P. Weiss, D.L. Schrader, B.C. Johnson. (2018) Records of magnetic fields in the chondrule formation environment. In *Chondrules: Records of Protoplanetary Disk Processes*. Eds. S.S. Russell, H.C. Connolly, and A.N. Krot. Cambridge University Press.
 40. M.T. Bland, A.I. Ermakov, C.A. Raymond, D.A. Williams, T.J. Bowling... **R.R. Fu** *et al.* (2018) Morphological indicators of a mascon beneath Ceres's largest crater, Kerwan. *Geophys. Res. Lett.* 45, 1297-1304.
 41. D.R. Glenn*, **R.R. Fu**, P. Kehayias*, D. Le Sage, E.A. Lima, B.P. Weiss, R.L. Walsworth (2017) Micrometer-scale magnetic imaging of geological samples using a quantum diamond microscope. *Geochem. Geophys. Geosyst.* 18, 2017GC006946.
 42. B.P. Weiss, H. Wang, T.G. Sharp, J. Gattacceca, D.L. Shuster, B. Downey, J. Hu, **R.R. Fu**, A.T. Kuan, C. Suavet, A.J. Irving, J. Wang, J. Wang. (2017) A nonmagnetic differentiated early planetary body. *Earth Planet. Sci. Lett.* 468, 119-132.
 43. **R.R. Fu**, A.I. Ermakov, S. Marchi, J.C. Castillo-Rogez, C.A. Raymond, B.H. Hager, M.T. Zuber *et al.* (2017). The Interior Structure of Ceres as Revealed by Surface Topography. *Earth Planet. Sci. Lett.* 476, 153-164.
 44. A.I. Ermakov, **R.R. Fu**, J.C. Castillo-Rogez, C.A. Raymond, R.S. Park, F. Preusker, C.T. Russell *et al.* (2017) Constraints on Ceres' Internal Structure and Evolution From Its Shape and Gravity Measured by the Dawn Spacecraft. *J. Geophys. Res.* 122, 2267-2293
 45. J.E.C. Scully, D.L. Buczowski, N. Schmedemann, C.A. Raymond, J.C. Castillo-Rogez... **R.R. Fu** *et al.* (2017) Evidence for the interior evolution of Ceres from geologic analysis of fractures. *Geophys. Res. Lett.* 44, 9564-9572.
- Published prior to beginning Harvard position:*
46. H. Wang, B.P. Weiss, X.-N. Bai, B.G. Downey... **R.R. Fu** *et al.* (2017) Lifetime of the solar nebula constrained by meteorite paleomagnetism. *Science* 355, 623-627.
 47. **R.R. Fu**, B.P. Weiss, E.A. Lima, P. Kehayias, J.F. Araujo *et al.* (2017) Evaluating the paleomagnetic potential of single zircon crystals using the Bishop Tuff. *Earth Planet. Sci. Lett.* 458, 1-13.
 48. A. Scheinberg, **R.R. Fu**, L.T. Elkins-Tanton, B.P. Weiss, S. Stanley (2017) Magnetic Fields on Asteroids and Planetesimals. In *Planetesimals: Early Differentiation and Consequences for Planets*. Eds. L.T. Elkins-Tanton and B.P. Weiss. Cambridge University Press.

49. A.E. Eyster, **R.R. Fu**, J.V. Strauss, B.P. Weiss *et al.* (2017) Paleomagnetic evidence for a large rotation of the Yukon block relative to Laurentia: Implications for a low-latitude Sturtian Glaciation and the break-up of Rodinia. *Geol. Soc. Am. Bull.* 129, 38-58.
50. **R.R. Fu**, E.D. Young, R.C. Greenwood, L.T. Elkins-Tanton (2017) Silicate melting and volatile loss during differentiation in planetesimals. In *Planetesimals: Early Differentiation and Consequences for Planets*. Eds. L.T. Elkins-Tanton and B.P. Weiss. Cambridge University Press.
51. **R.R. Fu**. (2016) Stars through the Araucarias: Mapuche-Pewenche ethnoastronomy. *Boletín del Museo Chileno de Arte Precolombino* 21, 81-100.
52. M.T. Bland, C.A. Raymond, **R.R. Fu**, P.M. Schenk, H. Kneissl *et al.* (2016) Composition and structure of the shallow subsurface of Ceres revealed by crater morphology. *Nat. Geosci.* 9, 538-542.
53. B.P. Weiss, A.C. Maloof, T.M. Harrison, N.L. Swanson-Hysell, **R.R. Fu**, J.L. Kirschvink, E.B. Watson, R.S. Coe, S.M. Tikoo, J. Ramezani. (2016) Reply to Comment on "Pervasive remagnetization of detrital zircon host rocks in the Jack Hills, Western Australia and implications for records of the early dynamo". *Earth Planet. Sci. Lett.* 450, 409-412.
54. S. Marchi, A.I. Ermakov, C.A. Raymond, **R.R. Fu**, D.P. O'Brien *et al.* (2016) The missing large impact craters on Ceres. *Nat. Commun.* 7, 12257-12265.
55. J.F. Einsle, R.J. Harrison, T. Kasama, P.O. Conbhui, K. Fabian, W. Williams, L. Woodland, **R.R. Fu**, B.P. Weiss, P.A. Midgley (2016) Multi-scale three-dimensional characterization of iron particles in dusty olivine: Implications for paleomagnetism of chondritic meteorites. *Am. Min.* 101, 207-2084.
56. R.S. Park, A.S. Konopliv, B.G. Bills, N. Rambaux, J.C. Castillo-Rogez, C.A. Raymond, A.T. Vaughan, A.I. Ermakov, M.T. Zuber, **R.R. Fu**, M.J. Toplis, C.T. Russell, A. Nathues, F. Preusker (2016) A partially differentiated interior for (1) Ceres deduced from its gravity field and shape. *Nature* 537, 515-517.
57. C.T. Russell, C.A. Raymond, E. Ammannito, D.L. Buczkowski, M.C. De Sanctis...**R.R. Fu et al.** (2016) Dawn arrives at Ceres: Exploration of a small volatile-rich world. *Science*. 353, 1008-1010.
58. H. Hiesinger, S. Marchi, N. Schmedemann, P. Schenk, J.H. Pasckert...**R.R. Fu et al.** (2016) Cratering on Ceres: Implications for its crust and evolution. *Science*. 353, aaf4759.
59. A. Scheinberg, **R.R. Fu**, L. T. Elkins-Tanton, and B. P. Weiss. (2015) Asteroid Differentiation: Melting and Large-Scale Structure. In: *Asteroids vol. IV*. Univ. Arizona Press, Tucson, AZ.
60. B.P. Weiss, A.C. Maloof, N. Tailby, J. Ramezani, **R.R. Fu et al.** (2015) Pervasive remagnetization of detrital zircon host rocks in the Jack Hills, Western Australia and implications for records of the early geodynamo. *Earth Planet. Sci. Lett.* 430, 115-128.
61. **R.R. Fu**, B.P. Weiss, E.A. Lima, R.J. Harrison, X.-N. Bai *et al.* (2014) Solar nebula magnetic fields recorded in the Semarkona meteorite. *Science* 346, 1089-1092. Also see: [MIT News Article](#). [Scientific American Article](#).
62. **R.R. Fu**, E.A. Lima, and B.P. Weiss. (2014) No Nebular magnetization in the Allende CV carbonaceous chondrite. *Earth Planet. Sci. Lett.* 404, 54-66.
63. A.I. Ermakov, M.T. Zuber, D.E. Smith, C.A. Raymond, G. Balmino, **R.R. Fu**, and B.A. Ivanov (2014) Constraints on Vesta's interior structure using gravity and shape models from the Dawn mission. *Icarus* 240, 146-160.
64. **R.R. Fu**, B.H. Hager, A.I. Ermakov, and M.T. Zuber. (2014) Efficient early global relaxation of asteroid Vesta. *Icarus* 240, 133-145.
65. **R.R. Fu** and L.T. Elkins-Tanton (2014) The fate of magmas in planetesimals and the retention of primitive chondritic crusts. *Earth Planet. Sci. Lett.* 390, 128-137.

66. **R.R. Fu**, B.P. Weiss, D.L. Shuster, J. Gattacceca, T.L. Grove *et al.* (2012) An ancient core dynamo in asteroid Vesta. *Science* 338, 238-241.
67. **R.R. Fu** and B.P. Weiss (2012) Detrital remanent magnetization in the solar nebula. *J. Geophys. Res.* 117, E02003.
68. **R.R. Fu**, A. Moullet, N. Patel, J. Biersteker, K.L. Derosé *et al.* (2012) Arcsecond resolution mapping of Sulfur Dioxide emission in the circumstellar envelope of VY Canis Majoris. *Astrophys. J.* 746, 42.
69. **R.R. Fu**, R.J. O'Connell, and D.D. Sasselov (2010) The interior dynamics of water planets. *Astrophys. J.* 708, 1326-1334.
70. E.Z. Noe Dobrea, J.L. Bishop, N.K. McKeown, **R.R. Fu**, C.M. Rossi *et al.* (2010) Mineralogy and stratigraphy of phyllosilicate-bearing and dark mantling units in the greater Mawrth Vallis/west Arabia Terra area: Constraints on geological origin. *J. Geophys. Res.* 115, E00D19.
71. G. Trinchieri, S. Pellegrini, G. Fabbiano, **R. Fu**, N.J. Brassington *et al.* (2008) Discovery of hot gas outflow in NGC 3379. *Astrophys. J.* 688, 1000-1008.

PUBLICATIONS IN REVIEW

1. **R.R. Fu**, N. Drabon, B.P. Weiss, C. Borlina, H. Kirkpatrick (*in review*) Statistical reanalysis of Archean zircon paleointensities: No evidence for stagnant-lid tectonics. *Earth Planet. Sci. Lett.*
2. K. Hess*, **R.R. Fu**, S. Piasek*, N.M. Strikis, R.I.F. Trindade, T. Kukla, A.R. Brenner*, P. Jaqueto, M.I. Petaev, F.W. Cruz, C. Pérez, H. Cheng (*in review*) Investigating speleothem magnetism as a proxy for dust mobilization and rainfall. *Quat. Sci. Rev.*
3. G.F. Souza, L. Uieda, R.I.F., Trindade, J. Carmo, **R.R. Fu** (*in review*) Full vector inversion of magnetic microscopy images using Euler deconvolution as a priori information. *Geochem. Geophys. Geosyst.*
4. V.S.C. Kuppili, M. Ball, D. Batey, K. Dodds, S. Cipiccia, K. Wanelik, **R.R. Fu**, C. Bau, R.J. Harrison (*in review*) Detection of primary paleomagnetic remanence carriers in zircon crystals using high-resolution X-ray pycho-tomography. *Sci. Rep.*
5. S.C. Steele*, **R.R. Fu**, A. Mittelholz, E.I. Ermakov, R.I. Citron, R.J. Lillis (*in review*) Could the weak magnetism of martian impact basins reflect cooling in a reversing dynamo? *Nat. Comm.*

NON-PEER REVIEWED PUBLICATIONS

1. **R.R. Fu**. 2013. Law firm seeks to expel indigenous community from ancestral land. *Santiago Times*, Oct. 13.
2. **R.R. Fu** and B.P. Weiss. 2013. An ancient magnetic field on asteroid Vesta. *Meteorite Magazine* 19.
3. **R.R. Fu**. 2009. On the interiors of water-rich super-Earths. Senior thesis. Harvard College.
4. **R.R. Fu**. 2009. An astronomical scene. *ReVista*, David Rockefeller Center for Latin American Studies, Spring issue, 60-61.

SELECTED PRESS

1. Mars had long-lived magnetic field, extending chances for life. By Zack Savitsky. *Science Magazine*, December 20, 2022.
2. Magnets preserve proof of plate tectonics. Presented by James Tytko. *The Naked Scientists Podcast*, BBC, December, 13, 2022.
3. Earth's oldest living landscape spotted in South African rock cores. By Paul Voosen. *Science Magazine*, April 13, 2022.

4. Diamonds are a Paleomagnetist's Best Friend. By Alka Tripathy-Lang. *Eos*. American Geophysical Union. October 19, 2021.
5. What did the Earth look like 3.2 billion years ago? *Short Wave Podcast*. National Public Radio. May 15, 2020.
6. Diamond microscope reveals slow crawl of Earth's ancient crust. By Paul Voosen. *Science Magazine*. April 22, 2020.
7. Tectonic plates helped early Earth evolve 3.2 billion years ago, and that shaped how life developed. *CNN*. April 22, 2020.
8. Oldest evidence of a moving tectonic plate found in Australia. By Maya Wei-Haas. *National Geographic*. April 22, 2020.
9. Mesoamerican Sculptures Reveal Early Knowledge of Magnetism. By Joshua Rapp Learn. *Smithsonian Magazine*. August 6, 2020.
10. The Mesoamerican attraction to magnetism. By Peter Reuell. *Harvard Gazette*. July 29, 2019.

RESEARCH FUNDING

2022	Dean's Competitive Fund: Developing methods for the first magnetic analyses of asteroid-returned samples (PI; \$55,666)
2022	NSF Paleoclimate: High spatial resolution assessment of the speleothem magnetization proxy (PI; \$313,105)
2022	Sloan Research Fellowship (PI; \$75,000)
2021	Harvard Origins of Life Initiative Grant: Analysis of unique deep core samples of 3.2 Ga microbial mats (PI; \$28,390)
2021	NASA Solar System Workings: Reassessing Martian dynamo history using high-resolution paleomagnetic imaging and updated orbital magnetometry (PI; \$371,488)
2021	William F. Milton Fund: Exploring the use of quantum magnetic field imaging to mitigate earthquake hazards (PI; \$47,419)
2021	Star-Friedman Challenge: Probing seismic hazards and earthquake physics using high-resolution magnetic imaging (PI; \$98,391)
2020	Dean's Competitive Fund: A high-pressure magnetic field imager to investigate the early solar system (PI; \$47,127)
2019	Lemann Foundation: Records of ancient rainfall from cave deposits: A combined research campaign and field course (PI; \$137,565)
2019	NSF CAREER: Exploring the early Earth with high-resolution paleomagnetism (PI; \$666,749)
2018	NSF EAGER: Building a Network of Quantum Diamond Microscope (QDM) Facilities and Researchers (PI; \$265,566)
2017	NSF Collaborative Research: Experimental and theoretical characterization of rapid Jurassic true polar wander (PI; \$209,208)
2017	NSF INSPIRE: Search for Records of the Hadean Dynamo in Detrital Zircons (Co-PI; \$30,293)
Total	\$2,345,967

INVITED TALKS

1. Las estrellas a través las araucarias: La etnoastronomía Mapuche-Pewenche. *Annual Symposium Keynote Talk*. Observatorio Instituto Cervantes. June 2023. (in Spanish)
2. Exploring Solar System formation and early plate tectonics using new paleomagnetic methods. *Department Colloquium*. Rice University. March 2023.
3. Exploring Solar System formation and early plate tectonics using new paleomagnetic methods. *Department Colloquium*. Princeton University. March 2023.
4. Pushing back the record of tectonic motion and geodynamo reversals using magnetic imaging. *Magnetics Information Consortium (MagIC) Meeting*. February 2023.
5. Magnetism during solar system formation and on the early Earth. *Magnetism and Magnetic Materials (IEEE Conference)*. Minneapolis, MN. November 2022.
6. Testing speleothem magnetism as a rainfall proxy using a high-resolution record from central-eastern Brazil. *The Karst Record IX*. Innsbruck, Austria. July 2022.
7. An expanding role for NV magnetic field sensing in the Earth sciences. *NSF Research Traineeship Quantum Sensing Incubator*. Merced, CA. June 2022.
8. Exploring solar system formation and the early Earth with novel paleomagnetic tools. *Biweekly seminar*. Geological Society of Washington. April 2022.
9. Novel paleomagnetic insights from complex Earth and planetary rocks. *Department Colloquium*. Yale University. March 2022.
10. An expanding role for NV magnetic field sensing in the Earth sciences. *Physics of Quantum Electronics Conference*. Snowbird, UT. January 2022. (*Plenary*)
11. The magnetism of complex Earth and planetary samples. *Earth and Planetary Sciences Department Colloquium*. Harvard University. November 2021.
12. From dust particles to tectonic plates: New views from high-resolution paleomagnetism. *Earth and Planets Laboratory Seminar*. University of Glasgow. July 2021.
13. High-resolution, speleothem mapping using the quantum diamond microscope (QDM). *Santa Fe Rock Magnetism Conference*. June 2021.
14. From dust particles to tectonic plates: New views from high-resolution paleomagnetism. *Earth and Planets Laboratory Seminar*. Carnegie Institution for Science. April 2021.
15. Understanding magnetism in the protoplanetary disk with high-resolution paleomagnetism. *Lunar and Planetary Science (LPI) Seminar Series*. Lunar and Planetary Science Institute. March 2021.
16. Probing Archean plate motion and the early geodynamo with high-resolution magnetic imaging. *School of Earth and Ocean Sciences Seminar*. University of Victoria, BC. November 2020.
17. Understanding magnetism in the protoplanetary disk with high-resolution paleomagnetism. *Center for Meteorite Studies Seminar*. Arizona State University, Tempe. July 2020.
18. Using a quantum diamond microscope to study early solar system magnetism. *Quantum Sensors and their Applications in Fundamental Physics and Astrophysics Experiments Symposium*. Washington University, St. Louis. December 2019.
19. Quantifying ancient precipitation with annual resolution records of speleothem magnetism. *AGU Fall Meeting*. December 2019.
20. Magnetic microscopy. A tutorial in AGU Centennial session. *AGU Fall Meeting*. December 2019.
21. Magnetic field imaging using the quantum diamond microscope. *Magnetic Imaging in Rock Magnetism and Paleomagnetism Workshop*. Berkeley. December, 2019.
22. Early solar system paleomagnetism using the QDM. *Magnetic Imaging in Rock Magnetism and Paleomagnetism Workshop*. Berkeley. December, 2019.

23. Towards a robust paleomagnetic record from the solar system's first half billion years. *Department of Astronomy, Geophysics, and Atmospheric Sciences Seminar*. University of São Paulo. October 2019.
24. Quantum diamond magnetic imaging in the geosciences. *Gordon Research Conference in Quantum Sensing*. Hong Kong. June 2019.
25. Paleomagnetic records of outer solar system magnetic fields. *Main Belt Conference*. Sardinia. June 2019.
26. Towards a robust paleomagnetic record from the solar system's first half billion years. *Department of Earth, Environmental and Planetary Sciences Seminar*. Brown University. May 2019.
27. Magnetic fields in the early solar system. *Geological Sciences Departmental Seminar*. Stanford University. February 2019.
28. Early dynamos in the solar system. Bromery Lecture. *Johns Hopkins University*. October 2017.
29. Evaluating the paleomagnetic evidence for early dynamos. Keynote Lecture. *Goldschmidt Meeting*. Paris, August 2017.
30. The water-rich interior of dwarf planet Ceres. *UCLA Meteorite Gallery*, March 2017.
31. Exploring the early solar system with meteorite paleomagnetism. *UCLA iPLEX Seminar Series*. March 2017.
32. Records of magnetic fields in the chondrule formation environment. *Chondrule formation workshop, Natural History Museum*. London. February 2017.
33. Evaluating the evidence for magnetic dynamos in chondritic parent bodies. *Meteoritical Society Meeting*. August 2016.
34. Micrometer-scale magnetic imaging using the Quantum Diamond Magnetometer (QDM). *BEPIS (Beijing Earth and Planetary Interior Symposium)*. June 2016.
35. The lively interiors of planetesimals. *Southwest Research Institute Seminar*. Boulder, CO. April 2016.
36. Probing core processes in the Earth and small bodies using paleomagnetism. *AGU Fall Meeting*. December 2015.
37. Studying Earth and planetary dynamos with Quantum Diamond Magnetometry. *Earth Life Science Institute*. Tokyo Institute of Technology. September 2015.
38. Exploring the early solar system with paleomagnetism. Brown University Department of Earth and Environmental Sciences. April 2015.
39. Solar nebula magnetic fields recorded in the Semarkona meteorite. *Ringberg Conference on Protoplanetary Disk Magnetism*. April 2015.
40. Exploring the early solar system and the Earth's deep interior with paleomagnetism. UT Austin Jackson School of Geosciences. April 2015.
41. Exploring the early solar system with paleomagnetism. Harvard University Dept. of Earth and Planetary Sciences. March 2015.
42. Exploring the early solar system with paleomagnetism. Caltech Division of Geological and Planetary Sciences. March 2015.
43. Exploring the early solar system with paleomagnetism. Arizona State University School of Earth and Space Exploration. February 2015.
44. Nebular paleomagnetism. *AGU Fall Meeting*. December 2014.
45. Exploring the early solar system with meteorite paleomagnetism. *Carnegie Department of Terrestrial Magnetic (DTM) Seminar*. Washington D.C. June 2014.
46. Carbonaceous chondrites as samples of differentiated planetesimals. *Carbonaceous Meteorites and Primitive Asteroids Workshop*. Nice, France. June 2014.

47. Exploring solar system formation with meteorite paleomagnetism. *BiSEPPS Seminar*. Harvard University Dept. of Earth and Planetary Sciences. December 2013.
48. Core formation and dynamo generation in asteroid Vesta. *BEPIS (Beijing Earth and Planetary Interior Symposium)* 2013.
49. Early core formation and dynamo generation in asteroids: The case of Vesta. *AMNH Earth and Planetary Sciences Seminar*. New York. October 2012.
50. On the interiors of water-rich super-Earths. *AMNH Earth and Planetary Sciences Seminar*. New York. March 2011.

ADVISING

1. Research Advisor to Jasmine Palma, Harvard Undergraduate. (2022 – present)
2. Research Advisor to Gabriel Maxemin, Harvard Undergraduate. (2022 – 2023)
3. Summer Research Advisor to Sharmila Dey, Alexandra Topic, Eden Fisher, Casey Murray, and Fadzai Ngwerume, Harvard Undergraduates. (2021)
4. Research Advisor to Charlotte Nickerson, Harvard Undergraduate. (2020 – 2021)
5. Thesis committee member for Sophie Coulson (EPS; 2017-2020); Kimee Moore (EPS; 2018-2020); Zachary Murray (Astrophysics; 2021- present); Öykü Mete (EPS; 2023-present); Val Aguilar (EPS; 2023-present).
6. Research Co-advisor to Zoe Levitt, MIT Undergraduate. Co-advisor Oliver Jagoutz, MIT. (2019 – 2022)
7. PhD Advisor to Kimberly Hess, Harvard Department of Earth and Planetary Sciences. (2018 – present)
8. PhD Advisor to Hairuo Fu, Harvard Department of Earth and Planetary Sciences. (2018 – 2019)
9. Research Advisor to Jacob Ott, Harvard Undergraduate. (2017 – 2020)
10. Summer Research advisor to Xingyu Li, USTC Undergraduate. (2019)
11. Summer Research advisor to Sarah Steele, Caltech Undergraduate. (2018) Presentation at AGU 2018 won Outstanding Student Presentation Award.
12. PhD Advisor to Alec Brenner, Harvard Department of Earth and Planetary Sciences. (2017 – present)
13. Academic Advisor for Harvard Earth and Planetary Sciences undergraduates Jamie Weisenberg (2017-2020), Hillman Hollister (2018-2020), and Justin Duffy (2020-present).
14. Advisor to Kai Shi, Columbia undergraduate. Senior thesis entitled “Numeric thermal modeling of 10 meter magnitude near Earth asteroids affected by the Yarkovsky effect”. (2017)
15. Advisor to T. Kuhn, LDEO Summer Internship Program (NSF REU site) participant. Project entitled “A magnetostratigraphy for the Tuchengzi and Yixian formations.” Presented at AGU 2016. (Summer 2016)
16. Advisor to S. R. Fischer, MIT undergraduate. Project entitled "Paleomagnetic detection of magnetic fields on Vesta." Poster presented at AGU 2013 and manuscript in preparation. (2012 – 2015)

TEACHING

1. EPS 120/220: Introduction to Planetary Sciences (Fall 2022; Course 4.3/5; Instructor: 4.6/5)
2. EPS/ESE 102: Data Analysis and Statistics in the Earth and Planetary Sciences (Spring 2022; Course 3.2/5; Instructor 3.7/5)
3. Freshman Seminar 50R: What Do You See in the Night Sky? (Fall 2021; Course 4.2/5; Instructor 4.3/5)

4. EPS/ESE 102: Data Analysis and Statistics in the Earth and Planetary Sciences (Spring 2021; Course 4.3/5; Instructor 4.2/5)
5. EPS 220: A Survey of Planetary Sciences (Fall 2020; Course 4.3/5; Instructor 4.3/5)
6. EPS 52: Geophysics of the Earth and Planets (Spring 2020)
7. EPS 174: Geological Field Course in Brazil (Spring 2020)
8. EPS 220: A Survey of Planetary Sciences (Fall 2018; Course 4.0/5; Instructor 4.3/5)
9. EPS 120: Introduction to Planetary Sciences (Spring 2018; Course 5.0/5; Instructor 4.3/5)
10. Freshman Seminar 50R: What Do You See in the Night Sky? (Fall 2017; Course 3.6/5; Instructor 3.8/5)
11. Graduate Teaching Assistant for Structure of Earth Materials (Spring 2013; Instructor Timothy L. Grove).
12. Graduate Teaching Assistant for Introduction to Planetary Sciences (Spring 2012; Instructor Benjamin P. Weiss).

COMMITTEE WORK

1. Faculty search committee in Earth's Physical Processes (Chair P. Huybers), Harvard Earth and Planetary Sciences Department, Spring, 2022.
2. Faculty search committee in Cryosphere Sciences (Chair J. Mitrovica), Harvard Earth and Planetary Sciences Department, Spring, 2022.
3. Co-Head Tutor of Undergraduate Curriculum Committee (UCC) in Harvard Earth and Planetary Sciences Department. (Fall 2020 - present)
4. Information Technology Committee in Harvard Earth and Planetary Sciences Department. (Fall 2019 - present)
5. Member of Undergraduate Curriculum Committee (UCC) in Harvard Earth and Planetary Sciences Department. (Fall 2017 - Spring 2020)
6. Faculty search committee (Chair C. Stubbs), Dean's Divisional Search, Fall 2019.
7. Faculty search committee in Earth History (Chair D. Johnston), Harvard Earth and Planetary Sciences Department, Spring, 2019.

FIELD EXPERIENCES

1. Paleomagnetic sampling of Archean volcanics and clastic sediments. Yellowknife, Slave Craton, Canada. June 2023.
2. Paleomagnetic sampling of Archean hydrothermal deposits and volcanics. Pilbara Craton, Australia. June 2022.
3. Paleomagnetic sampling of Archean volcanics. Northern Minnesota. October 2020.
4. Sampling of modern speleothems. Minas Gerais State, Brazil. October 2019; January 2020.
5. Paleomagnetic and geochemical sampling of Archean successions. Barberton Greenstone Belt, South Africa. July-August 2019.
6. Paleomagnetic sampling of Archean volcanics. Pilbara Craton, Australia. July 2018.
7. Paleomagnetic sampling of Archean rocks. Barberton Greenstone Belt, South Africa. October 2017.
8. Paleomagnetic sampling of Archean rocks. Pilbara and Yilgarn Cratons, Australia. July-August 2017.
9. Paleomagnetic sampling of Jurassic volcanics. Northern Chile. January 2017.
10. Paleomagnetic sampling of Jurassic volcanics. Northern China. June 2016.

11. Paleomagnetic sampling of Cretaceous sedimentary rocks. James Ross Island, Antarctica. February-March 2016.
12. Paleomagnetic sampling of Jurassic volcanics. Northern Chile. July 2015.
13. Paleomagnetic sampling of recent ignimbrites. Guatemala. November-December 2014.
14. Meteorite collection and characterization. Northern Chile. November 2013.
15. Paleomagnetic sampling of Pliocene volcanics. Mojave Desert, California. December 2013.
16. Paleomagnetic characterization of lightning-struck outcrops. Churchill County, Nevada. October 2013.
17. Paleomagnetic sampling of zircon-bearing units. Jack Hills, Australia. July-August 2012.
18. Deployment of broadband seismic array. Catamarca Province, Argentina. January 2008.

LANGUAGES

English (native), Mandarin (fluent), Spanish (fluent), German (conversational), Mapuche (conversational)

PROFESSIONAL SERVICE

1. Reviewer for *Astronomical Journal*; *Astrophysical Journal*; *Diamond*; *Earth and Planetary Science Letters*; *Geochemical Perspective Letters*, *Geochemistry*, *Geophysics*, *Geosystems*; *Geophysics Journal International*; *Icarus*; *Journal of Geophysical Research-Planets*; *Meteoritics and Planetary Science*; *Monthly Notices of the Royal Astronomical Society*; *Nature Geosciences*; *Nature Astronomy*; *Precambrian Research*; *Proceedings of the National Academy of Sciences USA*; *Physics of the Earth and Planetary Interiors*; *Science Advances*; *Scientific Reports*; *Sensors*; *Space Science Reviews*.
2. Advisory board member for the Institute for Rock Magnetism (An NSF-funded National Multi-User Facility at the University of Minnesota).
3. Advisory board member for the Magnetism Information Consortium (MagIC) (An NSF-funded group for standardizing geomagnetic data and to promote reproducibility).
4. Harvard ESE and EPS Prospective PhD Student Event for underrepresented groups, November 2021.

CONFERENCE SESSIONS CHAIRED

1. *Frontiers in Magnetic Microscopy and Micromagnetic Modeling*, Institute for Rock Magnetism Conference 2023.
2. *Quantum Microscopy. Physics of Quantum Electronics* 2022.
3. *Origin and Evolution of the Continental Crust*. AGU 2019.
4. *Fundamental Rock and Mineral Magnetism*. AGU 2017.

OTHER CONFERENCE ABSTRACTS AS PRESENTING AUTHOR

1. **R.R. Fu**, T. Thaler*, G. Maxemin*, S.C. Steele*, H. Fu. Solar nebula magnetic fields recorded in chondrules from the Murchison CM chondrite. AGU 2023.
2. **R.R. Fu**. Isolating the paleomagnetic signal from targeted mineral populations using magnetic microscopy. Institute for Rock Magnetism Conference, 2023.
3. **R.R. Fu**, J. Nie, P. Gao, B.A. Maher. Understanding the mechanism of magnetic enhancement in aeolian sediments using high-resolution magnetic imaging. AGU 2021.

4. **R.R. Fu**, M. Pec, M.W.R. Volk, D. Ortega-Arroyo. Quantifying localized heating and grain rotation in fault zones using high-resolution magnetic field imaging. AGU 2021.
5. **R.R. Fu**, M.W.R. Volk*, D. Bilardello, G. Libourel, G. Lesur, O. Ben Dor*. Sub-millimeter scale imaging of magnetization in the Allende CV chondrite: Implications for the structure of the solar nebula. LPSC 2021.
6. **R.R. Fu**, N. Drabon, M. Wiedenbeck, A.R. Brenner*, D.R. Lowe, C.S. Borlina. Paleomagnetism of 3.5-4.0 Ga zircons from the Barberton Greenstone Belt, South Africa. AGU 2020.
7. **R.R. Fu**, M. Volk*. Testing the origin of remanent magnetization in the Allende CV3 chondrite using high spatial resolution. AGU 2019.
8. **R.R. Fu**. Magnetic imaging. AGU 2019.
9. **R.R. Fu**, K. Hess*, P. Jaqueto, R.I.F. Trindade. Quantifying ancient precipitation with annual resolution records of speleothem magnetism. AGU 2019.
10. **R.R. Fu**, P. Kehayias*, B.P. Weiss, D.L. Schrader, R.L. Walsworth. Weak outer solar system magnetic fields recorded in CR chondrites. LPSC 2019.
11. **R.R. Fu**, D.V. Kent, J.R. Creveling, S.R. Hemming, J.X. Mitrovica, A high-fidelity 165 Ma paleomagnetic pole from Northern Chile with implications for Late Jurassic true polar wander. AGU 2018.
12. **R.R. Fu**, P. Kehayias*, E.A. Lima, D.L. Schrader, B.P. Weiss, R.L. Walsworth. Magnetic fields of the outer solar nebular recorded in CR chondrites. Goldschmidt 2018.
13. **R.R. Fu**, D.V. Kent. Anomalous Late Jurassic motion of the Pacific Plate with implications for true polar wander. AGU 2017.
14. **R.R. Fu**, B.P. Weiss, E.A. Lima, C. Borlina, T.M. Harrison, A.N. Harrison. Evaluating the paleomagnetic evidence for early dynamos. Goldschmidt 2017.
15. **R.R. Fu**, A.I. Ermakov, S. Marchi, J.C. Castillo-Rogez, C.A. Raymond, S.D. King, M.T. Bland, C.T. Russell. Thermal evolution and fluid flow in planetesimals inferred from Dawn Mission observations of Ceres. Meteoritical Society Meeting 2016.
16. **R.R. Fu**, A.I. Ermakov, M.T. Zuber. The global scale relaxation state of Ceres. AGU 2015.
17. E.A. Lima, **R.R. Fu**, D.G. Glenn*, P. Kehayias*, B.P. Weiss, R. L. Walsworth. Evaluating the paleomagnetic potential of zircons. AGU 2015.
18. **R.R. Fu**, B.P. Weiss, D.L. Schrader. Magnetic fields in the late-stage solar nebula recorded in CR chondrites. LPSC 2015.
19. **R.R. Fu**, E.D. Young, R.C. Greenwood, L.T. Elkins-Tanton. Fluid migration in early-accreting planetesimals. LPSC 2015.
20. **R.R. Fu**, D.R. Glenn*, D. Le Sage, E.A. Lima, B.P. Weiss, R.L. Walsworth. Imaging micrometer scale rock magnetism using a quantum diamond microscope. AGU 2014.
21. **R.R. Fu**, E.A. Lima, B.P. Weiss, R.J. Harrison, D.S. Ebel, S.J. Desch. Nebular magnetism recorded in the Semarkona meteorite. LPSC 2014.
22. **R.R. Fu** and L.T. Elkins-Tanton. The fate of magmas in planetesimals and the retention of primitive chondritic crusts. LPSC 2014.
23. **R.R. Fu**, E.A. Lima, B.P. Weiss. Measurements of magnetic fields in the solar nebula. AGU 2013.
24. **R.R. Fu**, B.H. Hager, A.I. Ermakov, M.T. Zuber. Early viscous relaxation of asteroid Vesta and implications for late impact-driven despinning. LPSC 2013.
25. **R.R. Fu** and L.T. Elkins-Tanton. Partially differentiated planetesimals may retain primitive crusts. LPSC 2013.
26. **R.R. Fu** and B.H. Hager. Asteroid shape as a constraint on early differentiation and subsequent evolution. AGU 2012.

27. B.P. Weiss and **R.R. Fu**. Chondrule magnetizations in the Allende CV chondrite and implications for the dynamo of the CV parent body. AGU 2012.
28. **R.R. Fu**, B.P. Weiss, L. Li, C. Suavet, J. Gattacceca, E.A. Lima. Magnetic fields on 4 Vesta as recorded in two eucrites. LPSC 2012.
29. **R.R. Fu** and B.H. Hager. Asteroid shape as a constraint on early melting and differentiation. LPSC 2012.
30. **R.R. Fu** and B.P. Weiss. Detrital remanent magnetization in the solar nebula. AGU 2011.
31. B.P. Weiss and **R.R. Fu**. Magnetic fields on asteroid 4 Vesta recorded by the Millbillillie eucrite. AGU 2011.
32. L. Carporzen, **R.R. Fu**, E.A. Lima, B.P. Weiss. A secondary origin of chondrule magnetization in the Allende CV carbonaceous chondrite. AGU 2011.
33. **R.R. Fu** and B.P. Weiss. Detrital remanent magnetization on comets and asteroids and implications for Rosetta. Rosetta SWT meeting, Nov. 2011.
34. **R.R. Fu**, B. P. Weiss, L. Li, C. Suavet, and J. Gattacceca. Magnetic fields on asteroid 4 Vesta recorded by the Millbillillie eucrite. DPS-EPSC 2011.
35. **R.R. Fu**, R.J. O'Connell, and D.D. Sasselov. On the Interiors of Water-Rich Super-Earths. Astrobio 2010.