



Frederik J Simons

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POSITIONS

2019–present *Associate Chair of the Department of Geosciences;*
2017–present *Professor of Geosciences;*
2013–2017 *Associate Professor of Geosciences, with tenure;*
2006–2013 *Assistant Professor of Geosciences, Princeton University;*

2016–present *Executive Committee Member, Program in Archaeology;*
2012–present *Associated Faculty, Program in Applied & Computational Mathematics;*
2010–2013 *Dusenbury Preceptor of Geological and Geophysical Sciences, Princeton U.*

2010–2023 *Visiting Fellow, KU Leuven (Earth & Environmental Sciences);*
2018 & 2023 *Member, Institute for Advanced Study (Astrophysics);*
2014–2015 *Visitor, Institute for Advanced Study (Astrophysics & Cosmology);*
2013 *Visitor, U. Cambridge (Bullard Laboratories);*
2012 *Visitor, U. L. Bruxelles (Applied Mathematics);*
2011 *Visiting Fellow, University College London (Statistical Science);*
2010 *Visitor, V. U. Brussel (Mathematics);*
2009 *Visiting Professor, Institut de Physique du Globe de Paris (Planetary Science);*
2008 *Visiting Professor, Eidgenössische Technische Hochschule Zürich (Geophysics).*

2004–2007 *Lecturer of Geophysics, University College London (UCL).*

2002–2004 *Beck Postdoctoral Teaching Fellow, Council on Science & Technology;*
Hess Postdoctoral Fellow, Geosciences Department, Princeton University.

2002 *Postdoctoral Research Associate;*
1996–2002 *Research & Teaching Assistant, Earth, Atmospheric & Planetary Sciences, Massachusetts Institute of Technology (MIT).*

DEGREES

1996–2002 *Massachusetts Institute of Technology, Cambridge, MA;*
Doctor of Philosophy with thesis in Geophysics.

1992–1996 *Katholieke Universiteit Leuven, Belgium;*
Kandidaat & Licentiaat with thesis in Geology;
Grootste onderscheiding (summa cum laude).

1980–1992 *Onze-Lieve-Vrouwecollege Jesuit School, Antwerpen, Belgium;*
Humaniora, Latin & Greek. Primus perpetuus.

RESEARCH I am a geologically inspired, geophysically educated, computationally motivated and mathematically minded *geoscientist* interested in the seismic, mechanical, thermal and magnetic properties of the Earth's lithosphere—and of the terrestrial planets and moons. I enjoy analyzing complex, large, and heterogeneous geophysical data sets, and design theoretical and computational inverse methods and statistical techniques to be able to do so—especially for partially observed processes modeled on a sphere. No amount of sophistication can cure a fundamental data limitation: I am developing floating hydrophones to open up the sparsely instrumented oceanic domains for global tomography.

