

Hagay Amit - Curriculum Vitae

Current position: Chargé de recherche 1, CNRS, Laboratoire de planétologie et Géodynamique.

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Education

- 10/2005-9/2008: Postdoc at Equipe de Géomagnétisme, Institut de Physique du Globe de Paris, France.
- 1/2001-9/2005: Ph.D. in Geophysics, The Johns Hopkins University, USA. Thesis: Imaging core flow from geomagnetic secular variation: Consequences for core-mantle interactions and geomagnetic dipole moment changes.
- 10/1998-12/2000: M.Sc. in Hydrology, The Hebrew University of Jerusalem, Israel. Thesis: The interpretation of hydrographs from springs and wells.
- 10/1994-5/1998: B.Sc. in Physics and Atmospheric Sciences, The Hebrew University of Jerusalem, Israel.

Research experience

- 10/2006-9/2008: Postdoc at Equipe de Géomagnétisme, Institut de Physique du Globe de Paris, Marie Curie Intra-European Fellowship FP6.
- 10/2005-9/2006: Postdoc at Equipe de Géomagnétisme, Institut de Physique du Globe de Paris, departamental grants.

Research advisors

- Gauthier Hulot, Institut de Physique du globe de Paris: Postdoc advisor 2005-2008.
- Peter L. Olson, The Johns Hopkins University: Ph.D. advisor 2001-2005.
- Vladimir Lyakhovsky, Abraham Starinsky, Amitai Katz, The Hebrew University: M.Sc. advisors 1999-2000.

Grants and awards

- EPS excellent reviewer 2013.
- Bourse de Programme National de Planétologie - PNP, 2012.
- Marie Curie European Reintegration Grant - FP7, 2008 (which I declined in favor of my current permanent CNRS position).
- Marie Curie Intra-European Fellowship - FP6, 2006.
- Bourse de recherche post-doctorale - CNES, 2006 (which I declined in favor of the Marie Curie grant mentioned above).
- Krieger School of Arts and Sciences Fellowship, 2002.

Teaching assistant

- Natural Catastrophes (JHU 2004).
- Guided Tour of the Planets (JHU 2002).
- The Planet Earth (JHU 2001 & 2003).
- Groundwater (HUJI 2000).
- Geophysical methods (HUJI 1999 & 2000).

Teaching

- Fluid dynamics and dynamo action in planetary cores (LPGN, for Master 2 in 2010; for Master 1 in 2011 and 2012).

Mentoring

- Supervisor of Master 2 of Ludovic Huguet, LPGN 2011. Thesis: Transfert d'énergie magnétique dans le noyau de la Terre.
- Co-supervisor of B.Sc. internship of Hugo Larnier, LPGN 2013.
- Co-supervisor of Ph.D. thesis of Joana Oliveira, LPGN 2012-2015. Thesis: The magnetic field of Mercury as measured by the MESSENGER spacecraft.
- Co-supervisor of Ph.D. thesis of Diana Saturnino, LPGN 2013-2015. Thesis: Describing temporal variations of the geomagnetic field using a modified virtual observatory scheme: application to Swarm measurements
- Co-supervisor of Ph.D. thesis of Diego Peña, ON 2014-2017. Thesis: Magnetic field stretching at the Earth's core.
- Supervisor of Master 1 of Maélie Coutelier, LPGN 2015. Thesis: Geomagnetic secular variation times under rapid rotation constraints.
- Supervisor of Ph.D. thesis of Filipe Terra-Nova, LPGN 2015-2018. Thesis:

Service as a reviewer

- International journals
 - Geophysical Journal International.
 - Physics of the Earth and Planetary Interiors.
 - Earth Planets Space.
 - Proceedings of the National Academy of Sciences.
 - Journal of Geophysical Research.
 - Nature Geosciences.
 - Icarus.
 - Earth and Planetary Science Letters.
 - Geophysical Research Letters.
 - Progress in Earth and Planetary Sciences.
 - Nature Communications.

- Journal of Atmospheric and Solar Physics.
- Geology.
- AIMS Environmental Science.
- Scientific Reports.
- Grant proposals
 - PNP (Programme National de Planétologie).
 - GIF (the German Israeli Foundation for scientific research and development).
 - IDEX (Initiative D'EXcellence).
 - CEFIPRA (Indo French Centre for the Promotion of Advanced Research).
 - NERC (Natural Environment Research Council) UK.
 - GAČR (Czech Science Foundation).
 - NSF (National Science Foundation) USA.

Service in jury committees

- Master of Camilo Valbuena Sánchez, Bogotá Columbia. Thesis: Study on polarity reversal of the geomagnetic field.

Conference administration

- Convener of sessions in AGU, EGU.
- Core officer in the Geodynamics section of EGU 2011-2015.
- Member of scientific and local committees of the SEDI (Study of the Earth Deep Interior) conference, Nantes July 2016.