

TIM LICHTENBERG • CURRICULUM VITAE

 Atmospheric, Oceanic and Planetary Physics, University of Oxford, Parks Rd, Oxford OX1 3PU, United Kingdom

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Academic Positions

[Simons Collaboration on the Origins of Life](#) Postdoctoral Fellow (University of Oxford) 10/2019–09/2022
Swiss National Science Foundation Early.Postdoc Mobility Fellow (University of Oxford) 08/2018–09/2019
Atmospheric, Oceanic and Planetary Physics; host: [Raymond T. Pierrehumbert](#)

Education

Doctoral student (ETH Zurich, Switzerland) 09/2014–05/2018
Thesis: [Thermal Evolution of Forming Planets: Isotope Enrichment, Differentiation & Volatile Retention](#), advisors: [T. V. Gerya](#), [M. R. Meyer](#), [G. J. Golabek](#), [R. J. Parker](#)
Master of Science Physics (Georg-August-Universität Göttingen, Germany) 09/2012–08/2014
Thesis: [Modeling gravitational instabilities in compact and massive protoplanetary disks with adaptive mesh refinement technique](#), advisors: [D. R. G. Schleicher](#), [S. Dreizler](#), final grade 1.1 ('with distinction'), thesis grade 1.0
Semester abroad (Peking University, People's Republic of China) 09/2012–12/2013
Bachelor of Science Physics (Georg-August-Universität Göttingen, Germany) 09/2009–08/2012
Thesis: [Constraining Exoplanet Characteristics with Asteroseismology](#), advisors: [L. Gizon](#), [S. Dreizler](#), final grade 2.1, thesis grade 1.0

Peer-reviewed Publications

ORCID  0000-0002-3286-7683

[T. Lichtenberg](#), [G. J. Golabek](#), [R. Burn](#), [M. R. Meyer](#), [Y. Alibert](#), [T. V. Gerya](#), [C. Mordasini](#) (2019). [A water budget dichotomy of rocky protoplanets from 26Al-heating](#). *Nature Astronomy* 3, 307–313. ([outreach blog post](#))
[I. Bonati*](#), [T. Lichtenberg](#), [D. J. Bower](#), [M. Timpe](#), [S. P. Quanz](#) (2019). [Direct imaging of molten protoplanets in nearby young stellar associations](#). *Astronomy & Astrophysics* 621, A125. * student co-supervised ([outreach blog post](#))
[T. Lichtenberg](#), [T. Keller](#), [R. F. Katz](#), [G. J. Golabek](#), [T. V. Gerya](#) (2019). [Magma ascent in planetesimals: control by grain size](#). *Earth and Planetary Science Letters* 507, 154–165. ([outreach blog post](#))
[A. C. Hunt](#), [D. L. Cook](#), [T. Lichtenberg](#), [P. M. Reger](#), [M. Ek](#), [G. J. Golabek](#), [M. Schönbachler](#) (2018). [Late metal-silicate separation on the IAB parent asteroid: Constraints from combined W and Pt isotopes and thermal modelling](#). *Earth and Planetary Science Letters* 482, 490–500.
[T. Lichtenberg](#), [G. J. Golabek](#), [C. P. Dullemond](#), [M. Schönbachler](#), [T. V. Gerya](#), [M. R. Meyer](#) (2018). [Impact splash chondrule formation during planetesimal recycling](#). *Icarus* 302, 27–43. ([outreach blog post](#))
[R. J. Parker](#), [T. Lichtenberg](#), [S. P. Quanz](#) (2017). [Was Planet 9 captured in the Sun's natal star-forming region?](#) *Monthly Notices of the Royal Astronomical Society: Letters* 472, L75–L79.
[T. Lichtenberg](#), [R. J. Parker](#), [M. R. Meyer](#) (2016). [Isotopic enrichment of forming planetary systems from supernova pollution](#). *Monthly Notices of the Royal Astronomical Society* 462, 3979–3992. ([outreach blog post](#))
[T. Lichtenberg](#), [G. J. Golabek](#), [T. V. Gerya](#), [M. R. Meyer](#) (2016). [The effects of short-lived radionuclides and porosity on the early thermo-mechanical evolution of planetesimals](#). *Icarus* 274, 350–365. ([outreach blog post](#))
[T. Lichtenberg](#) & [D. R. G. Schleicher](#) (2015). [Modeling gravitational instabilities in self-gravitating protoplanetary disks with adaptive mesh refinement techniques](#). *Astronomy & Astrophysics* 579, A32.

Refereeing Service

Monthly Notices of the Royal Astronomical Society, *Astronomical Journal*, *Astrophysical Journal*

[Publons profile](#)

Selected Presentations (→ [full list](#) – 19 conference talks, 15 institute seminar talks, 15 poster presentations)

'From Stars to Planets II', Gothenburg, SE	<i>Talk</i>	06/2019
'UK Exoplanet Community Meeting' 2019, London, UK	<i>Talk</i>	04/2019
'European Astrobiology Network Association' 2018, Berlin, DE (invited)	<i>Talk</i>	09/2018
'European Planetary Science Congress' 2018, Session EXO2 & SB4 , Berlin, DE	<i>Talk, Talk</i>	09/2018
'Exoplanets II', Cambridge, UK	<i>Talk</i>	07/2018
University of Cambridge, Institute of Astronomy, Cambridge, UK (invited)	<i>Seminar</i>	05/2018
Stanford University, Department of Earth Sciences, Stanford, USA	<i>Seminar</i>	10/2017
Gordon Research Seminar 'Origins of Solar Systems', South Hadley, USA	<i>Talk</i>	06/2017
'Accretion, Differentiation and Early Evolution of the Terrestrial Planets', Nice, F	<i>Talk</i>	05/2017
Hungarian Academy of Sciences, Konkoly Observatory, Budapest, HUN (invited)	<i>Seminar</i>	03/2017
'Chondrules and the Protoplanetary Disk', London, UK	<i>Talk</i>	02/2017
'Formation of the Solar System and the Origin of Life', Leiden, NL	<i>Talk</i>	02/2017
University of Copenhagen, Centre for Star and Planet Formation, Copenhagen, DK (invited)	<i>Seminar</i>	02/2017
'New Directions in Planet Formation', Leiden, NL	<i>Talk</i>	07/2016
'Origin and Evolution of Plate Tectonics', Ascona, CH	<i>Poster</i>	07/2016
'4th Sant Cugat Forum on Astrophysics', Sant Cugat, E	<i>Talk</i>	04/2016
'The Delivery of Water to Proto-planets, Planets and Satellites', ISSI Bern, CH	<i>Talk</i>	01/2016

Honours, Awards & Grants

Doctoral Thesis Award 2019 , German Astronomical Society	09/2019
IAU PhD Prize for Planetary Systems and Astrobiology 2018 , International Astronomical Union	06/2019
Non-stipendiary Junior Research Fellowship, St Cross College, University of Oxford	06/2019
Simons Collaboration on the Origins of Life Postdoctoral Fellowship (\$276'000), Simons Foundation	12/2018
European Astrobiology Network Association, Berlin, Horneck-Brack Presentation Award, 2nd prize	09/2018
Selected as ETH Zurich nominee for the 2019-2020 class of Schmidt Science Fellows	08/2018
Joint Oxford-Bern 'Bernoulli' postdoctoral fellowship (2.5 years in total, 02/20-08/22)	03/2018
Early Postdoc.Mobility fellowship (1.5 years, CHF 77'650), Swiss National Science Foundation	12/2017
MERAC Funding and Travel Award (CHF 5'000), Swiss Society for Astrophysics and Astronomy	10/2016
Master's diploma awarded 'with distinction', Georg-August-Universität Göttingen	08/2014
' Dr. Berliner - Dr. Ungewitter ' award for M.Sc. thesis, Georg-August-Universität Göttingen	08/2014

Teaching & Mentorship

Co-supervision of ETH Zurich students Fabio Luchsinger (semester project, 2016-17), Irene Bonati (M.Sc. thesis, 2016-17), Madeleine Müller (B.Sc. thesis, 2019)	2016-2019
Substitute lecturer (Planetary Physics & Chemistry, Geophysics II), ETH Zurich Earth Sciences	2017-2018
Teaching Assistant for physics undergraduate courses (Physics I+II, Computational Physics, Introduction to Astro-/Geophysics), ETH Zurich Physics & Göttingen University	2012-2016

Outreach

Authoring, refereeing, and administrative activity for the astrobites.org collaboration: 20 peer-reviewed outreach blog articles of current astrophysical literature; ~24 internal reviews	2014-
Outreach blog articles about my recent publications on Forming Worlds	2017-