

Oliver Gressel

curriculum vitæ



personal information:

- Citizenship: German
- Date of birth: July 18, 1977
- Place of birth: Mosbach, Germany
- Marital status: married, two children
- Languages: German (native), English (fluent)
Swedish (CEFR B1), Danish (fluent, PD3)

research positions:

- 07/2021 — Head of *MHD & Turbulence* section at AIP
- 04/2019 — Affiliated Associate Professor, NBIA
- 2013–2018 Assistant Professor, NBIA, Copenhagen
- 2012–2013 Nordic Fellow, NORDITA, Stockholm
- 2009–2011 Post-doc, Queen Mary, University of London
- 2005–2008 Astrophysical Institute Potsdam (AIP)

grants/ awards:

- 03/2022 **ERC Consolidator Grant 2021**
€2,437,500 awarded by
The European Research Council
- 08/2016 Compute grant: 9,000,000 CPUh (as PI)
via PRACE Tier-0 on MareNostrum (BSC)
- 10/2015 **Johann Wempe Award 2015**
stipend (€2,500/month) awarded by the
Leibniz Institute for Astrophysics
- 11/2014 **ERC Starting Grant 2014**
€1,396,000 awarded by
The European Research Council
- 05/2014 Compute grant: 9,225,000 CPUh (as PI)
(PRACE Tier-1) on Fionn at ICHEC Ireland
- 10/2013 **DFE-MOBILEX mobility grant 2013**
DKK 2,250,000 (€300,000), awarded by
The Danish Council for Independent Research
- 09/2013 VR conference grant for a Nordita Workshop
SEK 70,000 (€8000), by Vetenskapsrådet
- 01/2012 Compute grant: 960,000 CPUh (as PI)
at the PDC center, KTH Stockholm
- 05/2010: Special prize in Astrophysics
€2500, awarded by Leibniz Kolleg Potsdam
- 2001–2002: DAAD international fellow at the
University of Guelph, Ontario, Canada

postgraduate education:	<ul style="list-style-type: none"> • 03/2009: PhD in Astrophysics with distinction “summa cum laude” • Thesis: <i>“Supernova-driven turbulence and magnetic field amplification in disk galaxies”</i> Universität Potsdam, Germany • Advisors: Prof. Dr. Günther Rüdiger (AIP) Dr. Udo Ziegler (AIP)
graduate education:	<ul style="list-style-type: none"> • 04/2005: Diplom (Master Degree) in Physics passed with grade “sehr gut” (A) • Thesis: <i>“Instability and turbulence in weakly magnetized rotating shear flows”</i> Eberhard-Karls-Universität Tübingen • Advisors: Prof. Dr. Wilhelm Kley (CPT) Dr. Jochen Peitz (CPT)
teaching experience:	<ul style="list-style-type: none"> • 2022 Responsible for “Adv. Comp. Astroph. Seminar” • 2019 — Individual lectures for “Cosmic magnetic fields”, “Exotic Objects”, “Adv. Comp. Astrophysics” • 2016–2018 Several lectures for “Theoretical Astrophysics”, “Star Formation & ISM”, “Comp. Astrophysics” • 2016 Teaching Assistant for “GR & Cosmology” • 2015 Organised international PhD summer school on “Protoplanetary Disks and Planet Formation” • 2014–2018 Offer annual introductory first-year project “Exoplanet Interiors” with usually 5-10 students • 2013–2018 Supplementary lectures during various courses, (Co-)supervision of PhD, MSc/BSc students, mentoring of postdoctoral researchers • 2009–2012 Teaching/marking for various exercise classes at the School for Mathematical Sciences, QMUL • 07/2006: Tutor at the 6th Helmholtz summer school <i>“Supercomputational Cosmology”</i> Helmholtz Institute, Potsdam, Germany • winter 2002/2003: Scientific assistant, exercises <i>“Theoretische Physik I – Mechanik”</i> Eberhard-Karls-Univ. Tübingen, Germany • summer 2001: Team leader, exercises <i>“Mathematik II für Physik und Bioinformatik”</i> Eberhard-Karls-Univ. Tübingen, Germany • 10/2000: Teaching assistant, compact course <i>“Math. Hilfsmittel für Physik-Studenten”</i> Eberhard-Karls-Univ. Tübingen, Germany

**research
training:**

- 10/2019: Applied Parallel Computing LLC
“*OpenACC training course*”
University of Potsdam, Germany
- 02/2008: Erasmus Intensive Program
“*Astrophysics Fluid Flow Modelling*”
University of Évora, Portugal
- 05/2006: Intel compact workshop
“*Cluster openMP*”
HLRS supercomp. facility, Stuttgart, Germany
- 09/2004: 4th Helmholtz summer school
“*Computational Fluid Mechanics*”
Helmholtz Institute, Potsdam, Germany
- 03/2004: Compact course
“*Introduction to numerical fluid mechanics*”
HLRS supercomp. facility, Stuttgart, Germany

**other
activities:**

- 2017 Editor for a monograph in Springer ASSL series,
Peer reviewer for European PRACE network,
Co-initiator of a West-Baltic network for Astroph.
- 2016 Organiser of a sizeable international conference,
Coordinator for a series of public evening lectures
- 2015 Referee for the Journal of Plasma Physics,
Work package coordinator for PLATO science,
Coordinator for an NBIA summer school
- 2014 Peer reviewer for national science panel,
Co-organiser for an NBIA summer workshop,
SOC member for Danish Astronomy Meeting
- 2013 — Peer reviewer for national science panel,
Main organiser of a Nordita Workshop
- 2012 — Associated member of LOFAR–MKSP
Referee for the Journal of Fluid Mechanics
and for the Astrophysical Journal,
- 2011 — Referee for Geoph. & Astroph. Fluid Dynamics
- 2009 — Referee for Monthly Notices of the RAS
- 2008 — Referee for Astronomical Notes