

Fabio Crameri

Graphic design · Scientific communication · Geosciences · Numerical modelling

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Born in: Davos, Switzerland · Nationality: Swiss

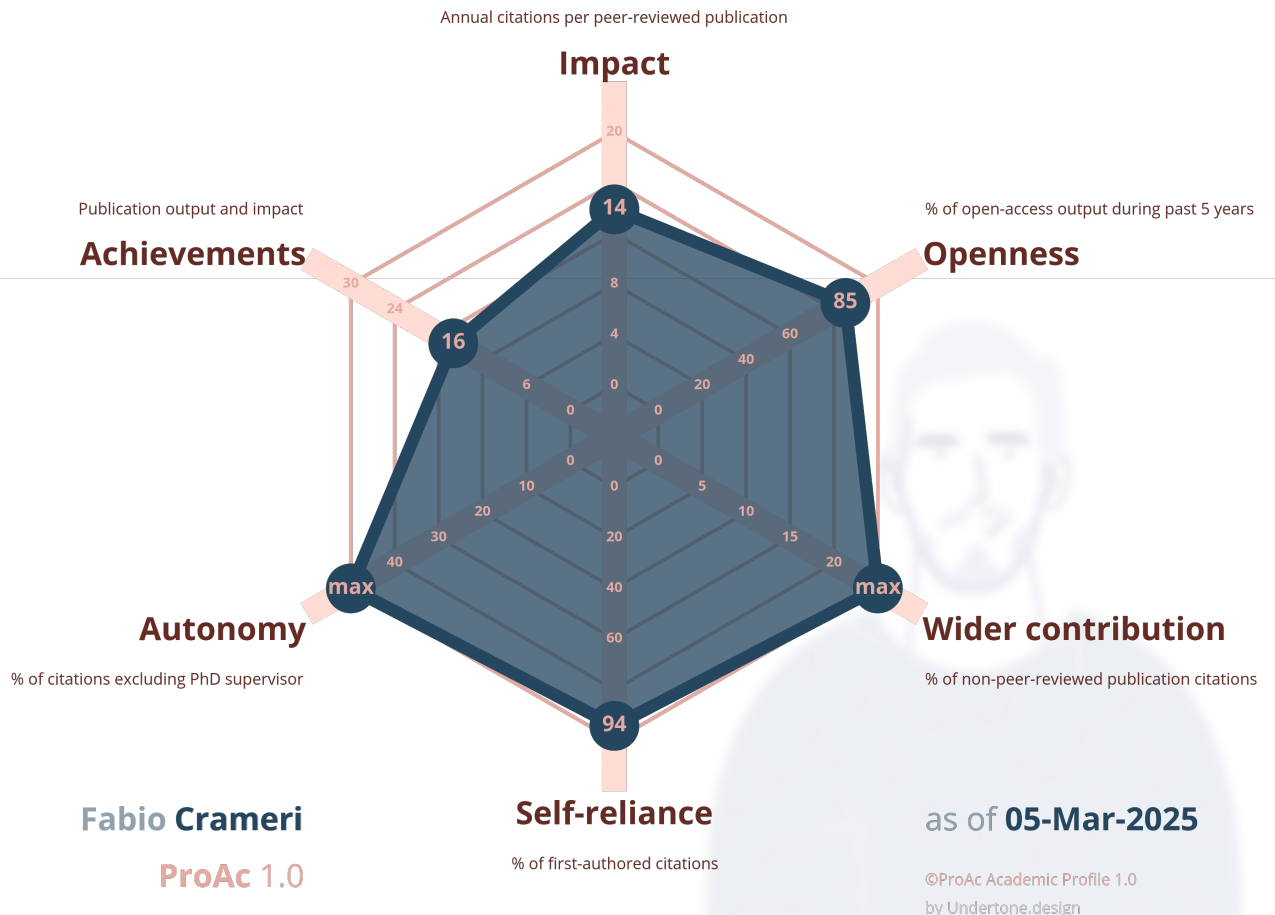
Education

- 2013 **PhD** in Geophysics, ETH Zürich. Disputation: *The interaction between subduction-related mantle currents and surface topography*, 19.04.2013. Dep. of Earth Sciences, ETH Zürich, Switzerland; Supervisor: Paul J. Tackley
- 2009 MSc in Earth Sciences, ETH Zürich
- 2007 BSc in Earth Sciences, ETH Zürich
- 2003 Federal maturity, Schweizerische Alpine Mittelschule Davos (SAMD)

Current and previous positions

- 01/2022–now **Scientific graphic designer + free-lance researcher + owner**, Undertone.design
- 01/2024–now **60% Scientific Communications Specialist**, International Space Science Institute (ISSI), Bern, Switzerland
- 03/2023–05/2024 Communications Assistant, European Geoscience Union (EGU), Munich Germany
- 03/2022–05/2022 50% Social Media Communicator, European Geoscience Union (EGU), Munich Germany
- 03/2021–05/2021 50% Social Media Intern, European Geoscience Union (EGU), Munich Germany
- 01/2021–12/2021 20% Researcher, CEED, University of Oslo, Norway
- 03/2019–12/2020 Researcher, CEED, University of Oslo, Norway
- 03/2016–03/2019 Postdoctoral Research Fellow, CEED, University of Oslo, Norway
- 01/2014–12/2015 Research Associate, Dept. of Earth Sciences, University College London, UK

Academic profile



Institutional responsibilities

12/2023–now	Journal Development Team , <i>Geodynamica</i> (community-led diamond open-access journal)
12/2020–03/2023	Journal Development Team, <i>Tektonika</i> (community-led diamond open-access journal)
01/2021–12/2022	Guest Associate Editor , <i>Frontiers Solid Earth Geophysics</i>
04/2020–12/2020	Deputy Team Leader, CEED Earth Modelling
08/2017–12/2020	Project Leader Assistant, CEED Earth Modelling high-performance computing

Supervising

11/2019–07/2020	Supervisor , BSc student Stefan Scherrer, Zurich University of the Arts
09/2018–09/2019	Co-supervisor, MSc student Rebecca Karlsson, CEED, University of Oslo
09/2016–now	Co-supervisor, PhD student Sruthi Uppalapati, CEED, University of Oslo
09/2015–10/2019	Co-supervisor, PhD student Antoniette G. Grima, University College London
09/2015–10/2019	Co-supervisor, PhD student Kiran Chotalia, University College London
09/2014–06/2015	Co-supervisor, MSc student Kiran Chotalia, University College London

Teaching activities

11/2024	Workshop for PhD students, TU Delft, Figure design + Scientific use of colour
05/2024	Workshop for PhD students, ERDW ETH Zurich, The art of graphic design
05/2024	Masterclass for PhD students, The University Center in Svalbard, Scientific graphic design
02/2023	Masterclass for PhD students, University of Toronto, The art of science communication
09/2022	Shortcourse for PhD students, iEarth Norway, Visualising science
2016/2018–22	Shortcourse for PhD students, University of Oslo, Modelling in Geosciences / Mantle convection / Subduction / Subduction zone initiation / Scientific Visualisation / Scientific colour use
05/2020	Scientific Teaching Certificate , course on the principles of backwards design, issued by KURT, Uni. of Oslo
10/2014	Shortcourse for PhD students, University College London, Mantle convection

Organisation of scientific meetings and workshops

2018	Initiator and lead organiser , YoungCEED workshop– <i>When do oceanic plates start to sink?</i>
2018–now	Co-initiator and lecturer: EGU short courses <i>Geodynamics 101</i> (2018–2023) & <i>Creative collaboration</i> (2023)
2017–now	Session convener: EGU GA (2021–2024), AGU Fall Meeting (2016–2017), Nethermod WS (2017)

Web platform development & maintenance

on-going	ProAc · Online toolbox to create a free academic profile
on-going	s-ink.org · Online collection for artistic and science-proof science graphics
on-going	SZIdatabase.org · Online resource and sharing platform for subduction zone initiation knowledge and data
2015	SEISMIN · Interactive learning webpage on planetary dynamics

Software and database development & maintenance

on-going	Scientific Colour Maps · Perceptually uniform, colour-blind friendly palettes (doi: 10.5281/zenodo.1243862)
on-going	SZI Database · Transdisciplinary data collection for subduction zone initiation (doi: 10.5281/zenodo.3756716)
on-going	StagLab · Geodynamic diagnostics and scientific visualisation (doi: 10.5281/zenodo.1199037)
on-going	DiVA · Fully automated, effective figure design for MatLab (doi: 10.5281/zenodo.3596368)

Wider contributions to the academic community

- **Peer-reviews** for NSF · NERC · Science · Nature · Nature Geoscience · Nature Communications · Communications earth & environment · GRL · JGR · G-cubed · Tectonics · AGU books · Geology · Tectonophysics · GJI · PEPI · EPSL · Frontiers · EGU Solid Earth · Earth-Science Reviews · EGU HESS · GSL · EGU Geoscience Communication · PeerJ · NeuroImage · Science Bulletin · EGU ESD
- **Visual-identity designs** for UCL Earth Sciences · BGI Geodynamics · NERC Deep Volatiles · BGI Deep Earth Volatile Cycles · UCL Exoplanet Centre · EGU Annales Geophysicae · CEED Working Groups and Initiatives · Geo-sports.org · ERN Award for Women in Geosciences · *Geodynamica* · ISSI Bern
- **Active support** for inclusive colour use · young-scientist development and activities · gender equality · full open-access journals and scientific software · a fair and inclusive academia

Journal articles (pre-print)

- 2024 Grima, A.G., C.R. Lithgow-Bertelloni, **F. Crameri** (2024, Pre-print), The Role of the Overriding Plate and Mantle Viscosity Structure on Deep Slab Morphology, *ESS Open Archive*, <https://doi.org/10.22541/essoar.170964995.57695978/v1>
- 2022 **Crameri, F.** (2022, pre-print), Academic profiling, instead of ranking, with ProAc (0.1.0), *Zenodo*, <https://doi.org/10.5281/zenodo.6569100>
- 2022 **Crameri, F.**, G.E. Shephard, and E.O. Straume (2022, pre-print), The open collection of geoscience graphics, *EarthArXiv*, <https://doi.org/10.31223/X51P78>

Journal articles (peer-reviewed)

- 2025 Heron, P.J., **F. Crameri**, E.F. Canaletti, D. Harrison, S. Hashemi, P. Leigh, S. Narayan, K. Osowski, R. Rantanen, and J.A. Williams (2025), Art, music, and play as a teaching aid: applying creative uses of Universal Design for Learning in a prison science class. *Front. Educ.* 10:1524007. <https://doi.org/10.3389/feduc.2025.1524007>
- 2024 Yin, Y., **F. Crameri**, G.E. Shephard, and P.J. Heron (2024), Changing your perspective: the impact of different visualisation methods on seismic hazard maps. *Canadian Journal of Earth Sciences*. <https://doi.org/10.1139/cjes-2023-0123>
- Fuderer, M., B. Wichtmann, **F. Crameri**, N.M. deSouza, B. Baeßler, V. Gulani, M. Wang, D. Poot, R. de Boer, M. Cashmore, K. E. Keenan, D. Ma, C. Pirkl, N. Sollmann, S. Weingärtner, S. Mandija, X. Golay (2024), Color-map recommendation for MR relaxometry maps, *Magn Reson Med.*, 1-17. <https://doi.org/10.1002/mrm.30290>
- Sollmann, N., M. Fuderer, **F. Crameri**, S. Weingärtner, B. Baeßler, V. Gulani, K.E. Keenan, S. Mandija, X. Golay and N.M. deSouza (2024), Color Maps: Facilitating the Clinical Impact of Quantitative MRI. *J Magn Reson Imaging*. <https://doi.org/10.1002/jmri.29573>
- Mahecha M.D., G. Kraemer, and **F. Crameri** (2024), Cautionary remarks on the planetary boundary visualisation, *Earth System Dynamics*, 15, 1153–1159, <https://doi.org/10.5194/esd-15-1153-2024>
- **Crameri, F.**, G.E. Shephard, and P.J. Heron (2024), Choosing suitable color palettes for accessible and accurate science figures, *Current Protocols*, 4, e1126. <https://doi.org/10.1002/cpz1.1126>
- 2022 van Zelst, I., **F. Crameri**, A.E. Pusok, A.C. Glerum, J. Dannberg, C. Thieulot (2022), 101 geodynamic modelling: how to design, interpret, and communicate numerical studies of the solid Earth, *Solid Earth*, 13, 583–637 (<https://doi.org/10.5194/se-13-583-2022>)
- Kaspar, F. and **F. Crameri** (2022), Coloring Chemistry—How Mindful Color Choices Improve Chemical Communication, *Angew. Chem. Int. Ed.*, 61, e202114910. (doi: 10.1002/anie.202114910)
- 2020 **Crameri, F.**, G.E. Shephard, and P.J. Heron (2020), The misuse of colour in science communication, *Nature Communications*, 11, 5444. (doi: 10.1038/s41467-020-19160-7)
- Grima, A.G., C.R. Lithgow-Bertelloni, and **F. Crameri** (2020), Orphaning Regimes: The Missing Link Between Flattened and Penetrating Slab Morphologies, *Frontiers in Earth Science*, 8(374), (doi: 10.3389/feart.2020.00374)
- **Crameri, F.**, V. Magni, M. Domeier, G.E. Shephard, K. Chotalia, G. Cooper, C. Eakin, A.G. Grima, D. Gürer, Á. Király, E. Mulyukova, K. Peters, B. Robert, and M. Thielmann (2020), A transdisciplinary and community-driven database to unravel subduction zone initiation, *Nature Communications*, 11, 3750. (doi: 10.1038/s41467-020-17522-9)
- Uppalapati, S., T. Rolf, **F. Crameri**, S.C. Werner (2020), Dynamics of lithospheric overturns and implications for Venus's surface, *Journal of Geophysical Research: Planets*, 125, e2019JE006258, (doi: 10.1029/2019JE006258)
- Karlsson, R.V.M.K., K.W. Cheng, **F. Crameri**, T. Rolf, S. Uppalapati, S.C. Werner (2020), Implications of anomalous crustal provinces for Venus' resurfacing history, *Journal of Geophysical Research: Planets*, 125, e2019JE006340, (doi: 10.1029/2019JE006340)
- 2019 **Crameri, F.**, G.E. Shephard and C.P. Conrad (2019), Plate Tectonics*, *Reference Module in Earth Systems and*

Environmental Sciences, Elsevier. (doi: 10.1016/B978-0-12-409548-9.12393-0)

- **Crameri, F.**, C.P. Conrad, L. Montési and C.R. Lithgow-Bertelloni (2019), The dynamic life of an oceanic plate, *Tectonophysics*, *760*, 107–135. (doi: 10.1016/j.tecto. 2018.03.016)
- 2018 **Crameri, F.** (2018), Geodynamic diagnostics, scientific visualisation and StagLab 3.0, *Geosci. Model Dev.*, *11*(6), 2541–2562. (doi: 10.5194/gmd-11-2541-2018)
- **Crameri, F.** and C.R. Lithgow-Bertelloni (2018), Abrupt upper-plate tilting during slab–transition-zone collision, *Tectonophysics*, *746*, 199–211. (doi: 10.1016/ j.tecto.2017.09.013)
- 2017 **Crameri, F.**, C.R. Lithgow-Bertelloni, and P.J. Tackley (2017), The dynamical control of subduction parameters on surface topography, *Geochem. Geophys. Geosyst.*, *18*(4), 1661–1687. (doi: 10.1002/2017GC006821)
- 2016 **Crameri, F.**, and P.J. Tackley (2016), Subduction initiation from a stagnant lid and global overturn: new insights from numerical models with a free surface, *Progress in Earth and Planetary Science*, *3*(1), 1–19. (doi: 10.1186/s40645-016-0103-8)
- Cagney, N., **F. Crameri**, W. Newsome, C.R. Lithgow-Bertelloni, A. Cotel, S. Hart, and J. Whitehead (2016), Constraining the source of mantle plumes, *Earth and Planetary Science Letters*, *435*, 55–63. (doi: 10.1016/j.epsl.2015.12.008)
- 2015 **Crameri, F.**, and P.J. Tackley (2015), Parameters Controlling Dynamically Self-Consistent Plate Tectonics and Single-Sided Subduction in Global Models of Mantle Convection, *J. Geophys. Res. Solid Earth*, *120*(5), 3680–3706. (doi: 10.1002/ 2014JB011664)
- 2014 **Crameri, F.**, and P.J. Tackley (2014), Spontaneous development of arcuate single-sided subduction in global 3-D mantle convection models with a free surface, *J. Geophys. Res. Solid Earth*, *119*(7), 5921–5942. (doi: 10.1002/2014JB010939)
- 2012 **Crameri, F.**, P.J. Tackley, I. Meilick, T.V. Gerya, and B.J.P. Kaus (2012), A free plate surface and weak oceanic crust produce single-sided subduction on Earth, *Geophys. Res. Lett.*, *39*(3), L03306. (doi: 10.1029/2011GL050046)
- **Crameri, F.**, H. Schmeling, G.J. Golabek, T. Duretz, R. Orendt, S.J.H. Buiter, D.A. May, B.J.P. Kaus, T.V. Gerya, and P.J. Tackley (2012), A comparison of numerical surface topography calculations in geodynamic modelling: an evaluation of the ‘sticky air’ method, *Geophysical Journal International*, *189*(1), 38–54. (doi: 10.1111/j.1365-246X.2012.05388.x)
- 2010 **Crameri, F.**, and B.J.P. Kaus (2010), Parameters that control lithospheric-scale thermal localization on terrestrial planets, *Geophys. Res. Lett.*, *37*(9), L09308. (doi: 10.1029/2010GLO42921)



Others

- 2024 **Crameri, F.** and S. Hason (2024), Navigating color integrity in data visualization, *Patterns*, 5(5), 100972, (<https://doi.org/10.1016/j.patter.2024.100972>)
- 2023 **Crameri, F.** (2023), Caring for those who care: Reflections from academics at EGU23, edited by G. D'Souza, *EGU-GeoLog Blog*. (→ Link)
- . **Crameri, F.** (2023), Honest observations about EGU23 poster designs: from geophysicist and graphic designer Fabio Crameri, edited by G. D'Souza, *EGU-GeoLog Blog*. (→ Link)
- 2022 **Crameri, F.** (2022), EGU22: Rethinking (geo)scientific conferences today, edited by H. Gibson and G. D'Souza, *EGU-GeoLog Blog*. (→ Link)
- . **Crameri, F.** (2022). Breaking subductions' fourth wall. *Nature Geoscience*, 15, 95–96. <https://doi.org/10.1038/s41560-022-00894-6> (→ Open-access link)
- 2021 Heron, P.J., **F. Crameri** and G.E. Shephard (2021), How rainbow colour maps can distort data and be misleading, edited by Nehal El-Hadi, *The Conversation Canada*. (→ Link)
- . **Crameri, F.** (2021). ProAc: Profiling, instead of ranking, academics. Zenodo. (doi:10.5281/zenodo.4899015)
- 2020 Shephard, G.E. and **F. Crameri** (2020), How many transdisciplinary researchers does it take to find out how an ocean sinks?, edited by H. Gibson, *EGU-GeoLog Blog*. (→ Link)
- 2018 **Crameri, F.** (2018), To serve Geoscientists, edited by G.E. Shephard, *EGU-Geodynamics Blog*. (→ Link)
- 2017 **Crameri, F.** (2017), Planetary Tectonics: Sinking plates on Venus, *Nature Geoscience*, 10, 330–331. (doi:10.1038/ngeo01701) **Crameri, F.** (2017), The Rainbow Colour Map (repeatedly) considered harmful, edited by G.E. Shephard, *EGU-Geodynamics Blog*. (→ Link)
- . **Crameri, F.** (2017), The Rainbow Colour Map (repeatedly) considered harmful, edited by G.E. Shephard, *EGU-Geodynamics Blog*. (→ Link)
- 2013 **Crameri, F.** (2013), The interaction between subduction-related mantle currents and surface topography, *PhD thesis*, ETH Zurich. (doi: 10.3929/ethz-a-009954311)
- 2012 **Crameri, F.** (2012), Plattentektonik realitätsnah modellieren, *Geosciences Actuel*, 2/2012. (→ PDF → Link)
- 2009 **Crameri, F.** (2009), Parameters that control the formation of lithospheric-scale shear zones, *Master thesis*, ETH Zurich
- 2007 **Crameri, F.** (2007), Simulation of convection and magmatic resurfacing in Io, *Bachelor thesis*, ETH Zurich



Scientific presentations

Talks

- 2024
- **Austrian Physics Society (OEPG) Meeting**, (*invited plenary talk*), Linz, 09/2024, *The theory of everything accurate and accessible colour use*
 - **ISSI Game Changer Webinar**, (*invited*), virtual, 09/2024, *Seeing the Unseen: Accurate and Inclusive Colour Scales in Space Science*
 - **EGU General Assembly Shortcourse**, Vienna, 05/2024, *Creative collaboration: working with artists to communicate science*
 - **EGU General Assembly Shortcourse**, Vienna, 05/2024, *Geodynamics 101: Numerical modelling*
- 2023
- **EGU General Assembly**, (*invited*), Vienna, 05/2023, *Sharpening our community research on the initiation of subduction zones*
 - **EGU General Assembly Shortcourse**, Vienna, 05/2023, *Creative collaboration: working with artists to communicate science*
 - **EGU General Assembly Shortcourse**, Vienna, 05/2023, *Geodynamics 101: Numerical modelling*
 - **Workshop presentation Aalto University** (*invited*), virtual, 04/2023, *How to prevent misuse of colour in scientific visualisation.*
 - **Seminar Case Western Reserve University** (*invited*), virtual, 04/2023, *How to prevent misuse of colour in scientific visualisation.*
 - **EGU Webinar** (*invited*), virtual, 03/2023, *One study, four presentations: how to share your research in any conference format!*
- 2022
- **MSKCC New York Seminar 2022** (*invited*), virtual, 10/2022, *How to prevent misuse of colour in scientific visualisation.*
 - **EGU Great Debate** (*invited*), Vienna, 05/2022, *Towards an academic evaluation system that celebrates diversity of talent*
 - **EGU General Assembly**, Vienna, 05/2022, *Geodynamics 101: Numerical modelling*
 - **EGU Webinar** (*invited*), virtual, 03/2022, *How to visualise your research using scientific, accessible graphics*
 - **NKG WGGE Keynote** (*invited*), virtual, 03/2022, *How to prevent misuse of colour in data processing and science communication*
 - **Nature Careers Webinar** (*invited*), virtual, 03/2022, *How to use art and design in science*
 - **Royal Holloway Earth Sciences Seminar** (*invited*), virtual, 02/2022, *A trans-disciplinary and community-driven database to unravel subduction zone initiation.*
- 2021
- **University of Kentucky Rast-Holbrook Seminar** (*invited*), virtual, 09/2021, *Modelstanding ocean-plate tectonics.*
 - **OpenPlanetary Lunch Seminar** (*invited*), virtual, 09/2021, *How to prevent misuse of colour in science communication.*
 - **University of Hawaii TGIF Seminar** (*invited*), virtual, 02/2021, *How to prevent misuse of colour in science communication.*
 - **Michigan State University SeismoLab Seminar** (*invited*), virtual, 02/2021, *The advantage, availability, and application of Scientific colour maps.*
 - **University of Oslo GeoHyd Seminar** (*invited*), virtual & recorded, 01/2021, *The misuse of colour in science communication.*
 - **UMR Géoazur Seminar** (*invited*), virtual, 01/2021, *How to use colour in science communication.*
 - **University of Cambridge Bullard Seminar** (*invited*), virtual, 01/2021, *A trans-disciplinary and community-driven database to unravel subduction zone initiation.*
- 2020
- **Online Geophysics&Tectonics Seminar** (*invited inaugural seminar*), Online, 06/2020, *A trans-disciplinary and community-driven database to unravel subduction zone initiation.*

- **ETH Zurich GFD Seminar** (*invited*), virtual, 05/2020, *A trans-disciplinary and community-driven database to unravel subduction zone initiation.*
- 2019 **Ada Lovelace Workshop** (*invited keynote; not presented*), Siena, 08/2019, *Modelstanding ocean-plate tectonics.*
- **EGU General Assembly**, Vienna, 04/2019, *Subduction Zone Initiation Database 1.0.*
- **EGU General Assembly**, Vienna, 04/2019, *Geodynamics 101b: Large-scale geodynamic processes.*
- 2018 **EGU General Assembly**, Vienna, 04/2018, *Abrupt and continental-wide upper-plate tilting induced by slab-transition-zone collision.*
- **EGU General Assembly**, Vienna, 04/2018, *Geodynamics 101: How to use and interpret numerical models of the solid Earth.*
- 2017 **AGU Meeting**, New Orleans, 12/2017, *Abrupt upper-plate tilting upon slab-transition-zone collision.*
- **BGI Seminar** (*invited*), University of Bayreuth, 06/2017, *The interplay between subducting plates, surface topography, and ...rainbows.*
- **EGU General Assembly**, Vienna, 04/2017, *The dominant surface-topography contributions of individual subduction parameters.*
- 2015 **University of Oslo CEED Seminar** (*invited*), Oslo, 10/2015, *The interaction between mantle currents and surface topography.*
- 2014 **Lyell Geoscience Society Lecture** (*invited*), Royal Holloway University, London, 10/2014, *Numerical modelling of global mantle convection and subduction: Challenges and recent advances.*
- **Cardiff University Seminar** (*invited*), Cardiff, 05/2014, *Single-sided subduction and related mantle currents in global numerical models of mantle convection.*
- 2013 **Imperial College Subduction Seminar** (*invited*), London, 12/2013, *The interaction between subduction-related mantle currents and surface topography.*
- **Scripps Institution of Oceanography Seminar** (*invited*), San Diego, 07/2013, *The interaction between subduction-related mantle currents and surface topography.*
- 2012 **EGU General Assembly**, Vienna, 04/2012, *A free plate surface and weak oceanic crust produce single-sided subduction on Earth.*
- 2011 **Swiss Geoscience Meeting**, Zurich, 11/2011, *Single-sided subduction on Earth.*
- **Topo-Europe Meeting**, Davos, 10/2011, *A free plate surface and weak oceanic crust produce single-sided subduction on Earth.*
- **EGU General Assembly**, Vienna, 04/2011, *Single-sided subduction on Earth.*
- 2010 **Topo-Europe Meeting**, Oslo, 11/2010, *One-sided subduction in self-consistent models of global mantle convection: the importance of a free surface and a weak crustal layer.*
- 2009 **Swiss Geoscience Meeting**, Neuchatel, 11/2009, *Parameters that control the formation of lithospheric-scale shear zones.*
- 2007 **Swiss Geoscience Meeting**, Geneva, 10/2007, *Simulation of convection and magmatic resurfacing in Io.*

Posters, PICOs & Displays

- 2024 **EGU General Assembly**, Vienna, 05/2024, *Towards a fair and inclusive next-generation of academic evaluation*
- 2023 **EGU General Assembly**, Vienna, 05/2023, *Profiling, instead of ranking, academics with the multi-metric academic profile ProAc*
- 2022 **CEED Seminar**, Sundvollen, 11/2022, *Independent CEED initiatives and how they have contributed to pave the way for another decade of successful geosciences*
- 2021 **#vEGU21 General Assembly**, online, 04/2021, *The 'Scientific colour map' Initiative: Version 7 and its new additions.*

- 2020 **shareEGU General Assembly**, online, 05/2020, *Towards ready-to-use open source automated geodynamic diagnostics and fair representation of numerical models.*
- . **shareEGU General Assembly**, online, 05/2020, *How to appreciate, use, and choose Scientific Colour Maps.*
- 2019 **APECS Svalbard Workshop**, Oslo, 11/2019, *Nuuk, an arctic scientific colour map.*
- . **Arctic Day**, Oslo, 10/2019, *Nuuk, an arctic scientific colour map.*
- . **Ada Lovelace Workshop**, Siena, 08/2019, *Subduction zone initiation (SZI) database 1.0: Ready, set, model!*
- . **EGU General Assembly**, Vienna, 04/2019, *Scientific Colour Maps: Reducing error across the Geodynamics community.*
- 2018 **Plate Tectonics Workshop**, London, 03/2018, *“Ocean-Plate Tectonics”: The importance of the mantle framework.*
- 2017 **Nethermod Workshop**, Putten, 08/2017, *Abrupt Upper-Plate Tilting During Slab–Transition-Zone Collision.*
- . **Nethermod Workshop**, Putten, 08/2017, *StagLab: Post-processing and Visualising Mantle and Lithosphere Dynamics.*
- . **EGU General Assembly**, Vienna, 04/2017, *StagLab: Post-processing and Visualisation in Geodynamics.*
- 2016 **Plate Tectonics Workshop**, Ascona, 07/2016, *Subduction initiation from a stagnant lid and global overturn: new insights from numerical models with a free surface.*
- 2016 **EGU General Assembly**, Vienna, 04/2016, *Subduction initiation from a stagnant lid: New insights from numerical models with a free surface.*
- 2015 **AGU Meeting**, San Francisco, 12/2015, *Towards dynamically constraining subduction zone parameters from surface-topography characteristics.*
- . **IWMMLD**, Oléron, 09/2015, *Towards dynamically constraining subduction zone parameters from surface-topography characteristics.*
- 2014 **AGU Meeting**, San Francisco, 12/2014, *Physical Parameters Controlling Subduction Dynamics and Surface Topography in Self-consistent Global Models of Mantle Convection.*
- . **AGU Meeting**, San Francisco, 12/2014, *Subduction Initiation in a Stagnant Lid and Episodic Overturn on Venus.*
- 2014 **EGU General Assembly**, Vienna, 04/2014, *Spontaneous development of arcuate single-sided subduction in global 3-D mantle convection models with a free surface.*
- . **EGU General Assembly**, Vienna, 04/2014, *Sinking of spherical slablets through a non-Newtonian mantle.*
- 2013 **IWMMLD**, Oslo, 09/2013, *Spontaneous trench migration and mantle flow in self-consistent mantle dynamics.*
- 2012 **AGU Meeting**, San Francisco, 12/2012, *Dynamical implications of single-sided subduction and floating continents in global self-consistent models of mantle convection.*
- . **GeoMod**, Lausanne, 07/2012, *Implications of single-sided subduction in global self-consistent models of mantle convection.*
- . **EGU General Assembly**, Vienna, 04/2012, *Slab-mantle interactions in simulations of self-consistent mantle convection with single-sided subduction.*
- 2011 **AGU Meeting**, San Francisco, 12/2011, *A benchmark comparison of numerical topography: what are suitable sticky-air parameters?*
- . **IWMMLD**, Berlin, 08/2011, *A free plate surface and weak oceanic crust produce single-sided subduction on Earth.*
- . **EGU General Assembly**, Vienna, 04/2011, *One-sided subduction in self-consistent models of global mantle convection: the importance of a free surface and a weak crustal layer.*
- 2010 **Swiss Geoscience Meeting**, Fribourg, 11/2010, *One-sided subduction in self-consistent models of global mantle convection: the importance of a free surface and a weak crustal layer.*
- . **GeoMod**, Lisbon, 10/2010, *One-sided subduction in self-consistent models of global mantle convection: the importance of a free surface and a weak crustal layer.*
- . **EGU General Assembly**, Vienna, 05/2010, *One-sided subduction in self-consistent models of global mantle*

convection: the importance of a free surface and a weak crustal layer.

2009

Swiss Geoscience Meeting, Neuchatel, 11/2009, *One-sided subduction in self-consistent models of global mantle convection: the importance of a free surface and a weak crustal layer.*

· **Crystal2Plate workshop**, Montpellier, 10/2009, *One-sided subduction in self-consistent models of global mantle convection: the importance of a free surface and a weak crustal layer.*



Public outreach

Selected scientific front-cover artwork

- 2023 **GeoExPro**, 2023, Henk Kombrink (editor), 5/2023, vol.20., GXP Publishing AS (→ Link)
- 2015 **Treatise of Geophysics**, 2015, G. Schubert (editor), 2nd ed., 5604 pp., Elsevier Science Ltd. (→ Link)
- 2014 **Geodynamics**, 2013, Turcotte, D., and G. Schubert, 3rd ed., 636 pp., Cambridge University Press, New York. (→ Link)
- 2013 **bild der wissenschaft**, 10/13, 90'000 copies. (→ Link).

Other selected scientific artwork

- 2018 **Jerram, D.** (2018), The Centre of the Earth: The Traveller's Guide (Traveller's Guides), *Palazzo Editions*, ISBN13: 978-1-78675-059-4, 160 p. (www.palazzoeditions.com/travellers-guide-centre-earth)
- 2016 **Voosen, P.** (2016), 'Atlas of the Underworld' reveals oceans and mountains lost to Earth's history, *Science News*. (doi: 10.1126/science.aal0411)
- 2013 **Kerr, R.A.** (2013), The Deep Earth Machine Is Coming Together, *Science*, 340(6128), 22–24. (doi: 10.1126/science.340.6128.22)

Other public outreach

- 2023 **Radiology interview**, 04/2023, Interview for Miske (2023), *Radiology*, (→ Link)
- 2021 **Nature interview**, 10/2021, Interview for Katsnelson (2021), *Nature*, 598, 224-225 (→ doi.org/10.1038/d41586-021-02696-z)
- **Titan.uio.no interview**, 01/2021, Interview about how the improper use of colour can distort scientific data (→ Link)
- 2020 **Co.Scienza Podcast**, 12/2020, Audio interview about Scientific colour maps: I Colori della Scienza (Quarantatreesima Puntata) (→ Link)
- 2019 **University Museum Bergen**, 10/2019, Motion graphics of a mantle convection model for a 5-m wide projection (→ Link)
- **AGU EOS**, 09/2019, Interview for AGU EOS about Ocean-Plate Tectonics (→ Link)
- **National Geographic Interview**, 05/2019, Interview for National Geographic about subduction zone initiation (→ Link)
- **YouTube Interview**, 02/2019, Interview for A Slice of CEED about colour maps (→ Link)
- 2016 **Scientific Visuals for Classical Concert**, 11/2016, "PhiloGaia2016: Trip to the heart of the Earth" (comp. B. Brice, PhiloGaia Orchestra IPGP) (→ Link)
- 2015 **Online Resource for Schools**, 10/2015, SEISMIN: Interactive learning homepage on planetary dynamics (→ Link)
- 2012 **YouTube Interview**, 03/2012, Interview for CSCS about modelling of plate tectonics and single-sided subduction (→ Link)
- **Swiss National Television broadcast "Einstein"**, 03/2012, Documentation and interview about our work on plate tectonics (→ Link)
- **ETH Globe**, 02/2012, Article about simulations in general and our simulations of plate tectonics (→ PDF → Link)
- **ETH life**, 02/2012, Article about our modelling of plate tectonics and single-sided subduction (→ PDF → Link)