

## Education

PhD in Geophysics, ETH Zürich

Disputation: The interaction between subduction-related mantle currents and surface topography, 19.04.2013

## Cross-disciplinary specialisation

Geodynamics · Numerical modelling ·

Automated geodynamic diagnostics · Scientific visualisation

Fabio Crameri

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@fcrameri

Born in: Davos, Switzerland

Nationality: Swiss

Academically-independent scientific profile as of 10.03.2020

*h*-index: 12 · *i10*-index: 14 · #citations: 833 · **12 most-cited publications are first-authored** (google scholar)

Social media impact: see @fcrameri · #usebatlow · #endrainbow

Initiator and lead organiser of the *YoungCEED workshop* assembling 13 early-career interdisciplinary researchers to build the community-driven subduction-zone initiation database

Lead developer of the community-driven research platform [www.SZIdatabase.org](http://www.SZIdatabase.org)

Academic blog posts for *EGU GeoLog* · *EGU GD* (2×) · *Nature News&Views*

Academic interviews for *AGU EOS*, *National Geographic*, SRF broadcast *Einstein*, and others.

## Open-source software development

**StagLab** · *Geodynamic diagnostics and scientific visualisation*, [www.fabiocrameri.ch/StagLab](http://www.fabiocrameri.ch/StagLab) (doi: 10.5281/zenodo.1199037)

**DiVA** · *Fully automated, effective figure design for MatLab*, [www.fabiocrameri.ch/diva](http://www.fabiocrameri.ch/diva) (doi: 10.5281/zenodo.3596368)

**Scientific Colour Maps** · *Perceptually uniform and colour-blind friendly palettes*, [www.fabiocrameri.ch/colourmaps](http://www.fabiocrameri.ch/colourmaps) (doi: 10.5281/zenodo.1243862)

...for more, see [www.fabiocrameri.ch/software](http://www.fabiocrameri.ch/software)

## Promotional scientific visualisation

**Front cover artwork** for *Treatise of Geophysics · Geodynamics · bild der wissenschaft*

**In-text artwork** for Jarram (2018, Palazzo Editions) · Voosen (2016, *Science*) · Kerr (2013, *Science*)

**Other artwork** for University Museum Bergen (2019), Classical Concert *PhiloGaia* (2016)

**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 · ERN Award for Women in Geosciences

## Selected peer-review publications highlighting novel community-wide approaches

**Crameri, F.**, V. Magni, M. Domeier, G.E. Shephard, et al. (2020), A transdisciplinary and community-driven database to unravel subduction zone initiation, *Nature Communications*, 11, 3750. (doi:10.1038/s41467-020-17522-9).

➔ *Fostering a community-driven approach to answer a key long-standing question of the Earth Sciences*

**Crameri, F.**, G.E. Shephard and P. Heron (2020), The misuse of colour in science communication, *Nature Communications*, 11, 5444. (doi:10.1038/s41467-020-19160-7).

➔ *Promoting an educated choice of colours in science for more accuracy and accessibility*

**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)

➔ *Development of a unified geodynamic concept to promote the 4<sup>th</sup> revolution in the Earth Sciences*

**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)

➔ *Development of open-source, perceptually uniform, and colour-deficiency friendly colour maps*

**Crameri, F.**, H. Schmeling, G.J. Golabek, T. Duretz, R. Orendt, S.J.H. Buitert, 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)

➔ *Development and community-wide testing of a novel numerical methodology*

[See full CV here.](#)