PHILIPPE DANRÉ

danre@geoazur.unice.fr ◇ Website

EDUCATION

Classe Préparatoire aux Grandes Ecoles, Lycée Saint-Louis 2014-2016
Bachelor Degree in Geosciences, Ecole Normale Supérieure - Université Pierre et Marie Curie 2016-2017
Masters Degree in Geosciences, Ecole Normale Supérieure 2017-2020
Masters in Geophysics, Université Côte d'Azur 2019-2020
PhD, Géoazur, Université Côte d'Azur - Graduated on Sep. 27 2023 2020 - 2023
Multi-scale and multi-object study of the relation between fluids and seismicity

RESEARCH EXPERIENCE

Internship in soil analysis, Laboratoire d'analyse des sols, Ville de Paris, France 2015
Influence of tides on slip modes using a simple spring-slider model, Laboratoire de Géologie de l'Ecole Normale Supérieure, Paris, France / Sup : Pr. R. Jolivet and Dr H. Bhat 2017
Source study of strike-slip earthquakes, Earth and Planetary Sciences Department, Harvard University, Cambridge, USA / Sup : Pr. Marine Denolle 2018
Influence of periodic loading on slip modes, Laboratoire de Géologie de l'Ecole Normale Supérieure, Paris, France / Sup : Pr. R. Jolivet and Dr H. Bhat 2018-2019
Multi-scale and multi-object study of the relation between fluids and seismicity, Géoazur, Université Côte d'Azur, Nice, France / Both masters 2 and PhD subject / Sup : Pr. F. Cappa and Pr. L. De Barros 2020-2023
Post-doctoral project on Gulf of Corinth seismicity, Géoazur, Université Côte d'Azur, Nice, France / PIs : L. De Barros and O. Lengliné 2023-2025

SKILLS

IT LaTeX, Python, MATLAB
Languages French, English (fluent), German (int.), Italian (beg.)

PUBLICATIONS

Danré, P., Yin, J., Lipovsky, B. P., Denolle, M. A. (2019). Earthquakes within earthquakes: Patterns in rupture complexity. Geophysical Research Letters, 46(13), 7352-7360.

De Barros, L., Wynants-Morel, N., Cappa, F., Danré, P. (2021). Migration of Fluid-Induced Seismicity Reveals the Seismogenic State of Faults. Journal of Geophysical Research: Solid Earth, 126(11), e2021JB022767.

Danré, P., De Barros, L., Cappa, F., Ampuero, J. P. (2022). Prevalence of aseismic slip linking fluid injection to natural and anthropogenic seismic swarms *JGR : Solid Earth*

Danré, P., De Barros, L., Cappa, F., (2022). Inferring fluid volume during earthquake swarms using seismic catalogs. *Geophysical Journal International*

Danré, P., Garagash, D., De Barros, L., Cappa, F., Ampuero J.-P. (2023). Control of seismicity migration in earthquake swarms by injected fluid volume and aseismic crack propagation. *Journal of Geophysical Research : Solid Earth*

OUTREACH EXPERIENCES

Teaching fellow at Université Côte d'Azur from 2020 to 2023 (bachelors and master students)

Constestant in "Ma Thèse en 180 secondes" in 2022, to present PhD subject in front of a wide audience in 3 minutes

Co-chair of AGU's 2023 session : "Physical Controls of Earthquake Swarm Evolution"

EXTRA-CURRICULAR ACTIVITIES

Mineralogy, Martial Arts, Music, Hiking