

Sarah VISAGE

Keywords: Earth sciences, analog modelling, strike-slip fault, image processing, deep learning.

Formation

PhD in Geosciences

CY Cergy Paris Université – GEC Laboratory

Cergy

2019–2023

Subject : "Study of the evolution of off-fault deformation on strike-slip faults, asismic and seismic, using *analogue modelling*"

Supervisors : Bertrand Maillot, Pauline Souloumiac and Nadaya Cubas

Master in Geosciences

Université de Rennes 1

Rennes

2015–2017

Bachelor in Earth Sciences and Environnement

CY Cergy Paris Université

Cergy

2011–2015

Professional experience

Postdoctorat

Université Grenoble Alpes – ISTerre Laboratory

Grenoble

Mai 2023–April 2024

Subject : "Characterisation of strike-slip fault offsets using *convolutional neural networks*"

MOLP Analyst

AD-LAB

Cergy

2018–2019

Teaching

Magmatism: Licence 1 and 2

Practical work | 2019–2022

Introduction to Geosciences: Licence 1

Practical work | 2019–2020

Time in geology: Licence 2

Practical work | 2019–2020

Geology of France: Licence 3

Practical work | 2019–2021

Publications

Visage, S., Souloumiac, P., Maillot, B., Rosenau, M., & Kosari, E. (2022). Material properties of analogue velocity-weakening material used for seismotectonic analogue modeling of strike-slip seismic cycle: The case of twice-broken rice. *Geosciences data publisher*.

Visage, S., Souloumiac, P., Cubas, N., Maillot, B., Antoine, S., Delorme, A., & Klinger, Y. (2023). Evolution of the off-fault deformation of strike-slip faults in a sand-box experiment. *Tectonophysics*, 847, 229704.

Visage, S., Pousse, L., & Giffard-Roisin, S. (2024). Validation dataset for strikelearn. *Zenedo*. <https://doi.org/https://doi.org/10.5281/zenodo.10876141>

Poster presentations

Visage, S., Souloumiac, P., Cubas, N., Maillot, B., & Klinger, Y. (2023). *Evolution of the off-fault deformation during experimental strike-slip earthquakes* (tech. rep.). Copernicus Meetings.

Visage, S., Souloumiac, P., Cubas, N., Maillot, B., Delorme, A., Antoine, S., & Klinger, Y. (2021). *Strik-slip fault in sandbox: Analysis of on- and off-fault deformation* (tech. rep.). GeoMod, Utrecht.

Visage, S., Souloumiac, P., Cubas, N., Maillot, B., & Klinger, Y. (2022). *Experimental strike-slip earthquakes ("ricequakes")* (tech. rep.). ISTeP, Paris-Sorbonne.

Oral presentations

- Visage, S., Pousse, L., Giffard-Roisin, S., Mouchené, M., Audin, L., & Perrinel, S. (2024). *Characterisation of strike-slip fault offsets using convolutional neural networks* (tech. rep.). Copernicus Meetings.
- Visage, S., Souloumiac, P., Cubas, N., Maillot, B., Delorme, A., & Klinger, Y. (2021). Strike-slip fault in a sandbox: Insight of on-and off-fault deformation from analogue modelling. *EGU General Assembly Conference Abstracts*, EGU21–13297.
- Visage, S., Souloumiac, P., Maillot, B., Cubas, N., & Klinger, Y. (2022). Experimental strike-slip earthquakes ("ricequakes"). *EGU General Assembly Conference Abstracts*, EGU22–9868.

Language

English: Level B2

Spanish: Level A2

Skills

Programming languages: Python, Matlab, Scilab, Bash

Scientific softwares: MicMac, Landlab

Image processing: Photogrametry, Image correlation

Office automation: Latex, Beamer, Markdown, Word, Excel, PowerPoint

Vector drawing: Adobe Illustrator, Inkscape

Others: Git, Servers, Deep Learning, Analog Modelling