

Structural Geologist

Education

- 2014 – 2017:** **Ph.D., Structural Geology/Active Tectonics – University of Pavia (Italy), expected graduation: end 2017**
-The Sicilian Channel: fault geometry and tectonic structures, geodynamic mechanism.
-Seismic interpretation, 3D/analogue/numerical modelling.
-Tutoring the master thesis of Giacomo Turini (110/110)
-Advisors: Prof. Silvio Seno, Dr. Emanuele Lodolo (OGS Trieste), Dr. Giovanni Toscani
- 2016:** **Visiting Ph.D., Fault analysis/Analogue modelling – University of Bern (Switzerland)**
-4D analysis of fault development using X-Ray computer tomography
-5 weeks long visiting period, collaborators: Prof. Guido Schreurs and Frank Zwaan
- 2015 – 2016:** **Visiting Ph.D., Fault analysis/Numerical modelling – University of Massachusetts (USA)**
-Numerical simulation of the Sciacca Fault System (Sicilian Channel - Italy)
-6 months long visiting period, advisor: Prof. Michele Cooke
- 2012 – 2014:** **MSc. Geology of Natural Resources – Paul Sabatier University in Toulouse (France), dist. 2:1**
- 2009 – 2012:** **BSc. Earth Science and Environment – Paul Sabatier University in Toulouse**

Professional Experience

- 2014: (3 month):** **URANPRES s.r.o., Slovakia**
-Geological survey on tunnel construction, project Ovciarsko
- 2014: (6 months):** **TOTAL SA CSTJF, Pau; GET, Toulouse, France**
-Project Géofluides 4D – Specialisation: Analysis of Mass Transport Complexes (Ainsa-Espagne)
-Deformation analysis of slumped beds, rheology of deformed sediments and associated fluid circulations, comparison between field observation and seismic images
-Advisors: Patrice Imbert (TOTAL), Prof. Francis Odonne (GET Toulouse)
- 2013: (3 months):** **Ludovika Energy s.r.o. (daughter of European Uranium Resources LTD.), Slovakia**
- Uranium-Molybdenum exploration project Kuriskova
-Construction of cross-sections and deposit model, geological mapping, core logging

Competencies

Technical:

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| -3D, numerical and analogue modelling | -Basin analysis, seismic interpretation |
| -Geological mapping, structural interpretation | -Geomechanics, diagraphy, GIS |

Languages:

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|---------|---|---------------------|--------|---|-----------------|
| French | - | Fluent | Slovak | - | Native language |
| English | - | Fluent | Czech | - | Native language |
| Italian | - | Basic communication | | | |

IT:

Move 2017, Poly3D, Sismage, Petrel, OpenDTect, Matlab, MapInfo, Surfer 10, StereoWin, Illustrator, Linux

List of publications and conferences

Publications:

- Soft-Sediment Deformation Associated with Mass Transport Deposits of the Ainsa Basin (Spanish Pyrenees), *Advances in Natural and Technological Hazards Research* 41 (2016), DOI 10.1007/978-3-319-20979-1_44
- Structural analysis and Miocene-to-Present tectonic evolution of a lithospheric-scale, strike-slip lineament: The Sciacca Fault (Sicilian Channel, Central Mediterranean Sea), *Tectonophysics*, accepted – accepted (under revision)
- Partial reactivation of transcurrent Sciacca Fault in the Sicilian Channel, Italy., in preparation
- 4D analogue modelling of transcurrent structure and its later interaction with thrust front: insights from SW Sicily and the Sicilian Channel, in preparation

Conferences:

2017:

- AAPG - Structural Styles in the Middle East, Muscat, Oman
- Analog Modelling of Tectonic Processes, Austin, USA (poster)

2016:

- 25th Earth Science Meeting, Caen, France (presented by Prof. Odonne)
- Geomod, Montpellier, France (poster)

2015:

- Annual reunion of Italian Structural Geologist group, Catania, Italy (poster)
- 7th International Symposium on Submarine Mass Movements and Their Consequences, Wellington, New Zealand (presented by Prof. Odonne)
- AGU fall meeting, San Francisco, USA (poster)

2014:

- Research and development day of TOTAL, CSTJF-Pau, France (presentation)
- 24th Earth Science Meeting, Pau, France (presentation)

Other education and training

- Shell Global Solutions - Applications of structural geology to hydrocarbon exploration and production
- Shell Global Solutions - Applications of carbonate diagenesis to hydrocarbon exploration and production
- Jean Philippe Avouac (Caltech) - Earthquakes and crustal deformation
- Gianreto Manatschal (Univ. of Strasbourg) - Tectonic evolution of rifted margins
- ENI - The role of structural geology in O&G exploration
- IFP school - MOOC Oil & Gas
- Michele Cooke (UMASS) - Rock Fracture Mechanics (GEO-SCI 631)
- Mike Williams (UMASS) - Tectonics (GEO-SCI 531)
- Michele Cooke (UMASS) - Mechanical Modelling of Faulting and Fractures

Interests

Member of AAPG, AGU

Ice hockey: professional goalkeeper for 10 years, selected in a national team; coach of young goalkeepers

Technical advisor to high school students working on earthquake prevention startup

Scientific, economic and political news