



QUESNEL Yoann

French, 40 years old, married, 2 kids (10 and 12 years old)

Assistant professor (with Supervisor Habilitation)
Earth and Planets team, CEREGE, Aix-Marseille University (AMU)

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Professional Experience

2008-present: Assistant Professor of AMU at CEREGE
2006-2008: Post-doc at [GFZ Potsdam](#) (DFG grant)
2003-2006: PhD student at [LPG Nantes](#) (French ministry grant)

Graduations

June 11, 2015: [Supervisor Habilitation](#) (HDR ; AMU, France)
November 20, 2006: [PhD](#) (Univ Nantes, France)

Research activities

Acquisition, processing, analyses, modeling and interpretation of terrestrial and planetary geophysical anomalies; application of geophysical methods in archeology, geology, impact structures and planetology

Teaching activities

- Geophysics (general and applied): undergraduate and graduate levels, ~110 h / year
- GIS: undergrad. & grad., ~80 h/y
- Seismic hazards: grad., 10 h/y
- manager of undergrad. and graduate teaching courses in numerical methods applied to geoscience, in GIS
- mentor of ~1 graduate student / year
- member of AMU pedagogical committees: jury for undergraduate students, selection committee

Main grants (PI)

- 2018-2020: CNRS INSU [Programme National de Planétologie](#) (14 k€) : Geophysics of the Rochechouart impact structure
- 2016-2018: CNRS [PICS](#) program (18 k€) : 3-years collaboration with CPSX of Univ of Western Ontario
- 2014-2017: [A*MIDEX](#) AMU excellence program (95 k€): 3-years including a co-tutelle PhD thesis
- 2013-2014: CNRS INSU PNP (6 k€): SWARM data exploitation on crustal magnetism

Peer-reviewed publications

34 including 8 as first author, H-index=10

Most significant publications related to the project: (see annex)

Patents

Co-author of patent [FR3050030](#) on a magnetic field scanning device for long cores

Communications

80 including 35 as first author (25 oral presentations as first author), 4 invited (2 as first author); international and national meetings/workshops (AGU, EGU, EPSC, IAGA, IUGG, etc.)

Mentoring

- PhD students :
- 2014-2018 [N. Launay](#): constraints on lithospheric magnetization (AMU)

- 2014-2017 [W. Zylberman](#): geophysical signature of impact structures (co-tutelle AMU/Univ Western Ontario, Canada)
2010-2014 [A. Jrad](#): geophysical prospection on archeological sites (co-tutelle AMU-Tunis Univ.; co-mentoring)
- Masters students: 7 since 2010
- Undergraduate students: 5 since 2009

Research responsibilities, Distinctions, Membership

- 2018-2023: Co-PI of the [Earth and Planets team of CEREGE](#)
- 2016-now: member of the second round of the scientific consortium of IODP-ICDP Exp 364
- 2013-now: Scientific co-investigator of [ESA Swarm mission](#)
- 2011: invited co-editor of a special issue of Archaeological Prospection peer-reviewed journal
- AGU, EGU, CNFGG, ISAP regular member

Meeting convener/organizer

- 2016: co-convener of AGU Fall Meeting 'Planetary Magnetism and Paleomagnetism (GP13A)' session in San Francisco (USA)
- 2015: co-organizer of PMAG Meeting in Aix-en-Provence (France)
- 2010: co-convener of EGU 'Magnetic and/or other geophysical prospection for archeology (MPRG12)' session in Vienna (Austria)

Reviewing activities

- Regular reviewer for *J. of Geophys. Res.*, *Earth & Planet. Sci. Lett.*, *Glob. & Planet. Change*, *J. of Geodynamics*, *Computers & Geosciences*, *Meteorit. & Planet. Sci.*
- Reviewer of research proposals submitted to ERC (1), Provence Region (1), French Research Office PhD program (1), CNRS INSU PNP (2) and CNES (2)

Webmaster

- 2018-now : (among other webmasters) [CEREGE Earth and Planets team website](#)
- 2015-2019: [ANR MagLune program website](#)
- 2013-2018: CEREGE Planetology (ex-)team website

Science promotion

- 2016: invited public lecture to the Alcazar library in Marseille (France) on the theme of 'magnetic field and light'
- 2009-now: regular participant to the Science National Party (Fête de la Science) with a workshop on magnetism at CEREGE

Collaborations (active and past)

- International: CPSX London, Canada (Pr G.R. Osinski), Rutgers Univ., USA (S. Tikoo), USTHB Algiers, Algeria (Pr M. Hamoudi)
- National: GEOPS Orsay (P. Sailhac, E. Chassefière), LPG Nantes (B. Langlais), GET Toulouse (D. Baratoux), CIRIR Rochechouart (P. Lambert), MMSH Aix-en-Provence (C. Rousse)

Skills

- Computer sciences: Python, Fortran, C+, Matlab, GMT, LaTeX, awk, Inkscape, Adobe Illustrator, QGis, GEOSOFT Oasis montaj
- Innovative teaching: numerical techniques (PIX), learning by problems level 1 and 2