



Guillaume Duclaux

*Geology, Computational Tectonics, Mineral Systems*

## Personal Details

Civility Dr Guillaume Duclaux (PhD)  
 citizenships: French, Australian  
 date of birth: 22/03/1981

Languages French: native | English: fluent | Norwegian: good | German: good

Contact Laboratoire Géoazur, Bât. 1, 250 rue Albert Einstein, 06560 Valbonne, France  
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 in guillaume-duclaux 🌐 Guillaume\_Duclaux 📺 Guillaume Duclaux

## Research interests

I study tectonic processes in a variety of settings using both field geology and computational methods (computational tectonics and surface processes modelling). My research interests are divided between the secular evolution of tectonic processes and mineral systems, the development of 3D structures in the continental lithosphere, and surface response to deformation in active tectonic settings.

## Employment history

**Université Côte d'Azur, France.**

since 2017 **Associate Professor (*Maître de Conférences Hors Classe*)**, *Department of Earth Sciences*, Géoazur Laboratory.  
 Specialities: Field Geology, tectonics, numerical modelling, mineral resources.

**Bergen University, Norway.**

2017–2014 **Research Fellow**, *Department of Earth Science*, Norwegian Research Foundation funding.  
 High-resolution 3D thermo-mechanical numerical modelling applied to oblique rift formation and evolution.

**CSIRO Earth Science and Resource Engineering, Australia.**

2014–2012 **Senior Research Scientist**, *Sydney*, Mineral System Science Program.  
 Leader role in applied gold, copper, and iron ore exploration projects generation and delivery. Field work and application of tectonic and surface processes modelling.

2012–2010 **Research Scientist**, *Perth*, Mineral System Science Program.  
 Applications in structural geology, hydrothermal gold systems characterisation, geospatial data analysis, numerical modelling of tectonic and surface processes.

*Associate Professor – Université Côte d'Azur*

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- 2011–2009 **Research Team Leader**, *Perth*, Mineral System Science Program.  
Manager of a team of 8 software engineers (dedicated to Spatial Data Infrastructure development in the AuScope program).
- 2009–2008 **Research Project Officer**, *Perth*, Mineral System Science Program.  
Structural geology and numerical modelling of mineral systems.
- Université Joseph Fourier**, *France*.
- 2008–2007 **Research & teaching assistant (ATER)**, *Grenoble*, French Ministry of Research funding.  
Teaching postgraduates petrography and field geology
- Université Jean Monnet**, *France*.
- 2007–2003 **Ph.D.**, *Saint Etienne*, in cotutelle with the University of Sydney, Australia, French Ministry of Research funding.
- 2006–2003 **Teaching assistant (Moniteur)**, *Saint Etienne*, Ministry of Research funding.  
Teaching geology to undergraduate and postgraduate students (lectures, practicals, and field camp supervision).

## Personal preparation

- Université Jean Monnet & The University of Sydney**, *France and Australia*.
- 2007–2003 **Thèse de Doctorat**, *Saint Etienne*, in cotutelle with the University of Sydney, Australia, Ministère de l'Education Nationale de la Recherche et de la Technologie.  
advisors: R.P. Ménot et P. Rey  
titre : *Mechanical behaviour of warm continental lithospheres – evolution of the Neoproterozoic cratons of Terre Adélie (East Antarctica) and Gawler (South Australia)*
- Ecole Normale Supérieure de Lyon**, *France*.
- 2003–2002 **DEA 'Dynamique de la Lithosphère' (M.Sc. Res)**, *Lyon*, Bourse au mérite du Ministère de l'Education Nationale de la Recherche et de la Technologie.  
Encadrant : S. Guillot  
titre : *Le magmatisme basique du Nord Togo témoin de l'orogénèse Panafricaine*
- 2003–2000 **Magistère des Sciences de la Terre**, *Lyon*.  
This selective multi-disciplinary formation provides a solid training in Earth Sciences, Mathematics, Geophysics, and Geochemistry.
- Université Claude Bernard**, *France*.
- 2003–2000 **D.E.U.G. Sciences de la Terre et de l'Univers**, *Lyon*.

## Teaching and Research Advising

### Teaching Experience

- 2023– 2017 Associate Professor at Université Côte d'Azur (Nice, France). Teaching Geology, Tectonics, and Mineral Ressources courses (200 hours/year) in undergraduates and postgraduates courses.
- 2017 – 2015 Teaching assistant at Bergen University (Norway). I taught Advanced Structural Geology (GEOV251) (36 hours/year).

- 2014 – 2012 Adjunct Lecturer at The University of Sydney (Australia). I taught numerical modelling of surface processes and tectonic geomorphology (GEOS3104 – Geophysical Methods) (12 hours/year), and an introduction course to Mineral System Exploration (4 hours/year).
- 2008–2007 Teaching assistant (ATER) at Université Joseph Fourier (Grenoble, France).
- 2006–2003 Teaching assistant (moniteur) at Université Jean Monnet (Saint Etienne).

#### Ph.D. Advising

- 2023–2020 Josselin Gremmel (Université Côte d'Azur, Nice, France)(co-direction 90%): *Numerical modelling and analysis of oblique tectonic systems*.
- 2021–2018 Zoé Candaux (Université Côte d'Azur, Nice, France)(co-direction 50%): *Surface structure and subsurface expression of flexural basin geology in the Greater Caucasus region in Georgia*.
- 2019–2013 Luke Mondy (The University of Sydney, Sydney, Australia)(co-direction 50%): *On the dynamics of continental rifting: a numerical modelling approach*.
- 2019–2015 Heng Wu (China University of Petroleum, Pékin, China)(co-direction 10%): *Insight from coupled tectonic-stratigraphic models and the Nanpu Sag, Bohai Bay basin, China*.
- 2017–2015 Gino de Gelder (IPGP, Sorbonne Paris Cité)(co-direction 10%): *Deformation of the Anatolian-Aegean margins associated with changes in plate-boundary conditions*.
- 2013–2009 Nicolas Riel (Université Joseph Fourier, Grenoble)(co-direction 5%): *Thermal anomaly and underplating on forearc systems: The El Oro Triassic massif in Ecuador*.

#### Ph.D and M.Sc examination

- 2022 Sophie Pan (Imperial College, Londres): *Understanding fault evolution using numerical models and seismic data observations*. Supervision: Dr. Rebecca Bell, Prof. Christopher Jackson – Ph.D. Examiner.
- 2020 Aurélie Louis Napoléon (Université de Toulouse et Institut National Polytechnique, Toulouse): *Modélisation d'instabilités gravitaires au sein de la croûte partiellement fondue par une méthode de Volume-Of-Fluid*. Supervision: Dr. Murielle Gerbault, Dr. Thomas Bonometti – Ph.D. Examiner.
- 2016 Vittoria Morean Salerno (Monash University): *Modelling of lithospheric history-dependent stretching - From continental rifts to passive margins formation*. Supervision: Dr. Fabio Capitanio – Ph.D. Examiner.
- 2016 Ole Sannes Riiser (Bergen University): *Using grain size analysis to understand transverse versus axial sediment supply to a rift: Example from the Sperchios rift, Greece*. Supervision: Prof. Patience Cowie – M.Sc. Examiner.
- 2014 Lune Gene Yeo (Sydney University): *Evaluating large-scale paleogeographic datasets and their responses to geodynamic processes*. Supervision: Prof. Dietmar Müller – Ph.D. Examiner.
- 2012 Catherine Stuart (Macquarie University): *Aqueous fluid advection: A plausible mechanism for heating the shallow crust to form HTLP metamorphic belts*. Supervision: Dr. Sandra Piazzolo – M.Sc. Examiner.
- 2011 Luke Mondy (Sydney University): *Coupling Computational Geodynamic Models with Synthetic Seismic Modelling*. Supervision: Dr. Patrice Rey – M.Sc. Examiner.

#### Master Project supervision

- 2021 Bakary Coulibaly (Université Côte d'Azur): *Numerical modelling of gneiss domes and sedimentary basins formation during the Eburnean orogeny in West Africa*. – French Master year 2 project supervision.

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- 2021 Bakary Coulibaly (Université Côte d'Azur): *Étude pétrographique et modélisation d'équilibres thermodynamiques de métapélites et metabasites tardi-archéennes du craton de Terre Adélie (Antarctique Est)*. – French Master year 1 project supervision.
- 2019 Medhi Messous (Université Nice Sophia Antipolis): *Analyse géomorphologique de l'incision récente du haut bassin de l'Ardèche et de ses affluents*. – French Master year 1 project supervision.
- Sofiene Ben Makhoulouf (Université Nice Sophia Antipolis): *Étude structurale, pétrographique et thermo-barométrique de la bordure sud du massif du Mercantour (zone du Rabuons, St Etienne de Tinée), impact pour la compréhension de la déformation dans la chaîne de collision varisque*. – French Master year 1 project supervision.
- 2018 Nimaleh Ali-Abdi (Université Nice Sophia Antipolis): *Le soulèvement récent de la bordure Est du Massif Central Français : cause ou conséquence de l'érosion des séries volcaniques Cénozoïques ?* – French Master year 2 project supervision.
- Fares Messahli (Université Nice Sophia Antipolis): *Expression géomorphologique de la déformation de surface en contexte décrochant : le cas de la faille Anatolienne orientale*. – French Master year 2 project supervision.
- 2013 Stephen Lound (Sydney University): *Development of a sedimentation model for an embayment (Iron Cove) of Sydney estuary, Australia*. – M.Sc. project supervision.
- 2010 Cornelia Kitzig (Free University of Berlin): *Microscale characterisation of fluid/rock interactions in Plutonic gold deposit*. – M.Sc. project supervision.
- 2009 Nicolas Riel (Université Joseph Fourier): *Introduction to thermo-mechanical modelling of continental rifting using Gale*. – French Master year 2 project supervision.

#### Academic responsibilities

- Since 2020 Master coordinator STPE 3G (Géologie, Géophysique, Géotechnique) at Université Côte d'Azur.
- Since 2018 Coordinator of the Department digital mapping equipment (15 iPads).
- Since 2020 Unit coordinator: Chaînes de montagne en L3 (6 ECTS).
- Since 2020 Unit coordinator: Géologie de terrain en domaine ductile en L3 (6 ECTS).
- Since 2020 Unit coordinator: Modélisation Géologique en M2 – 3G (6 ECTS).
- Since 2020 Unit coordinator: Géodynamique en M2 – 3G (6 ECTS).
- Since 2018 Unit coordinator: Ressources Minérales en M1–3G (6 ECTS).
- 2020 – 2018 Unit coordinator: Géologie structurale et tectonique 3 en L3-STE (8 ECTS).
- 2019 – 2017 Unit coordinator: Géomateriaux-Pétrologie 2 en L2-STE (9 ECTS).

#### Invitations, professional contributions and affiliations

- Invited Seminars **The East African Institute for Fundamental Research GEO@EAIFR**, Numerical Modelling of Continental Rifting: insights into the mechanisms driving 3D rift propagation and the architecture of oblique rifts, Kigali via Zoom, July 2022
- ISTerre Séminaires communs**, Université Grenoble-Alpes, Grenoble, March 2021
- CEREGE Séminaires communs**, Aix-Marseille Université, Aix-en-Provence, March 2020
- Imperial College Earth Science & Engineering Department Seminars** Numerical Modelling of Continental Breakup, London, November 2019

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**IPGP Séminaires communs Tectonique-Sismologie** High-angle faults control the geometry and morphology of the Corinth Rift, Paris, July 2016

**GeoPRISMS/CSDMS** Geodynamics Focus Research group workshop, AGU Fall meeting, San Francisco, December 2013

**Research Scholl of Earth Sciences seminar**, Australia National University, Canberra, April 2013, Fully supported

**GEMOC seminar**, Macquarie University, Sydney, March 2013

**Specialist Group in Tectonics and Structural Geology (Geol. Soc. Australia)**, pre-conference workshop on Computational Tectonics - Monash University, Melbourne, January 2012

**Open Geospatial Consortium Technical meeting** on domain Modelling and Implementation in Geosciences, Sydney, December 2010

**Geological Society of Australia quarterly meeting keynote speaker**, Perth, June 2010

Community Service Since 2021: Elected member for **CNU (National Universities Comity) section 35**

Since 2020: Research Team Leader **GéoMAT team**, 24 permanent members (UMR Géoazur, Université Côte d'Azur, Observatoire de la Côte d'Azur, IRD)

2020: Examiner for the **Certification d'Aptitude aux Fonctions de Formateurs Académique (CAFFA)** for the qualification of Life and Earth Sciences secondary teachers, rectorat de l'Académie de Nice.

2021–2018: Head of **Internationals Relations** for the Earth Sciences Department at Université Côte d'Azur.

2017–2015: Weekly seminar organiser for the Geodynamics group (Geolunch) (Bergen University, Norway)

2014 –2012: Steering committee member **Geology from Geodynamics** (Australian National eResearch Collaboration Tools and Resources)

2014–2010: Member of the internship selection committee for the **MDU internship program** (CSIRO, Minerals Down Under Flagship)

2012–2008: Member of the steering committee of the **CNFRA** (Comité National Français des Recherches Arctiques et Antarctiques)

International Community Service 2014–2009: Member of the **IUGS** Commission for the Management and Application of Geoscience Information GeoSciML Design Task Group

2014–2009: Member of the **OGC GeoSciML** Standard Working Group

Conferences Organisation Convener for sessions TS6.1/GD6.2/GM4.7/GMPV8.6/SSP3.174 and TS11.4/SM4.5, **EGU 2018**, Division : Tectonic and Structural Geology, Vienna, Austria

Co-convener for sessions TS6.1/GD5.4 and TS8.2/ERE1.7/SM4.8, **EGU 2017**, Division : Tectonic and Structural Geology, Vienna, Austria

Invited member of the programming committee, **eScience 2011**, IEEE, Stockholm, Sweden

Invited member of the programming committee, **eScience 2010**, IEEE, Brisbane, Australia

Co-organiser of the 3<sup>rd</sup>, 4<sup>th</sup> and 5<sup>th</sup> Journées Scientifiques du **CNFRA** dedicated to Polar research in 2006, 2007, et 2008. Muséum National d'Histoire Naturelle, Paris, France.

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Affiliations **EarthByte** group member [www.earthbyte.org](http://www.earthbyte.org)  
Membre de **CSDMS** – Geodynamics Focus Research Group  
Membre du **CNFRA**  
Sociétés professionnelle: **AGU, EGU, SGF** et **GSAmerica**

Reviewer for Ore Geology Reviews; Geology; Precambrian Research; Basin Research; Tectonics; Geochemistry, Geophysics, Geosystems; Computers & Geosciences; Geological Journal; Comptes Rendus – Geoscience; Frontiers in Earth Science; Marine and Petroleum Geology; Journal of Structural Geology; Journal of Geophysical Research: Solid Earth; GSA Bulletin.

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## Outreach

- 2022 Interview for online media [Actu.fr](http://Actu.fr) focusing on Nice's beach formation
- 2022 Blog for the [ArLiTA field mission in Adelie Land](#) (East Antarctica)
- 2020 Research Highlight "From 3D computational tectonic models to synthetic structural data: a short tale about how post-processing help unveil fault orientation evolution at the Earth surface", invited article in the [Computational Infrastructure for Geodynamics \(CIG\) August 2020 Newsletter](#)
- Since 2019 Creation and feed of two Twitter accounts: a personal account @GDuclaux, and an account for my research Team GéoMAT @Geol\_umrgeoazur
- Since 2019 Membre du comité de développement de l'Universarium, un projet de centre de diffusion de la culture scientifique porté par l'Observatoire de la Côte d'Azur.
- 2018 Outreach note following a publication in Geology about rift propagation on the [Géoazur page](#)
- 2014 Article on surface processes modelling for iron ore exploration in [Australian Resources & Investment](#), v. 8 (2), p. 72–73  
Interview on the Plutonic Gold System project in [Resourceful Magazine](#)
- 2013 Research highlight in [CSIRO News blog](#)  
Article on the potential of numerical modelling for Iron ore exploration in [ABC News](#)  
Live interview with the Australian Broadcasting Corporation (ABC radio)
- 2007 Presentation of the Geology of Antarctica in a video documentary: 'Un été en Antarctique'; Production: Yvon Le Gars. Aber Images and Ushuaïa TV. Projected during Pariscience Festival

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## Honours and awards

- 2017 Akademia mobility **award**, NOK 21k, Statoil & UiB
- 2015 Akademia mobility **award**, NOK 24k, Statoil & UiB
- 2012 Early Career Researcher **award**, Science at the Shine Dome, Australian Academy of Science
- since 2011 **Honorary Associate**, School of Geosciences, the University of Sydney
- 2005 Aide à la mobilité internationale **Scholarship**, Embassy of France in Australia.
- 2004 EURODOC Ph.D. **travel grant**, Rhône-Alpes Région, France
- 2002 Academic Excellence **Scholarship**, University of Lyon.

## Research grants and major consultancies

Year	Short title – Role*	Amount	Funding institution
2022	West African Exploration Initiative 4 – <i>PI</i>	AU\$171k	Amira Goba
2021	Dynamique des Relais Transpressifs et Transtensionnels – <i>PI</i>	7k€	CSI Université Côte d'Azur
2021	Dynamique des Systèmes Transpressifs (DyST) : le cas de la chaîne Varisque – <i>PI</i>	11k€	INSU Tellus
2020	Datations de la mise en place et des vitesses d'incisions des formations volcaniques récentes de la bordure Est du Massif Central Français – <i>PI</i>	3k€	BQR OCA
2020	EQ-Time (PI Lucilla Benedetti, CEREGE) – <i>CI</i>	530k€	ANR
2018	Unravelling tectonic controls on surface dynamics in active extensional systems – <i>PI</i>	6.5k€	BQR Géoazur
2014	Detrital iron ore modelling and prospectivity around Postmaburg area, South Africa – <i>ICW</i>	AU\$54k	AngloAmerican
2014	Modelling of CID formation in the Caliwingina area – <i>ICW</i>	AU\$70k	Rio Tinto Iron Ore
2014	Tenement-based CID prospectivity analysis – <i>ICW</i>	AU\$50k	Handcock Resources
2014	Cu mineralisation in Mount Isa Inlier – <i>PI</i>	AU\$137k	CST Mining
2014	Targeting Channel Iron Deposits in the Pilbara (M433) – <i>PI</i>	AU\$130k	MRIWA & BC Iron Ltd.
2013	Plutonic study extension – <i>PI</i>	AU\$29k	Barrick Australia Pacific Ltd.
2012 – 2013	Modelling of Channel Iron deposits formation – <i>CI</i>	AU\$68k	CSIRO Mineral Resources Flagship
2011 – 2012	Continental rifting – <i>PI</i>	AU\$111k	CSIRO Innov. Science Fund
2011	Archean dome and keel dynamics modelling – <i>PI</i>	AU\$34k	Uni. of Western Australia
2010 – 2012	Plutonic Gold System multi-scale study – <i>PI</i>	AU\$530k	Barrick Australia Pacific Ltd. & CSIRO Mineral Resources Flagship
2009	Modelling of the Mount Gibson camp – <i>CI</i>	AU\$40k	Legend Mining Ltd.
2009	Long-term tectonic simulations of the Victorian Gold-fields – <i>PI</i>	AU\$30k	GeoScience Victoria

\* *PI*: principal investigator, *CI*: co-investigator, *ICW*: independent consulting work

## Publications

### Statistics and citation metrics



WoS ResearcherID, Citations: 615, h-index: 16.



Google Scholar, Citations: 1034, h-index: 19.



Research Gate, Citations: 1032, h-index: 21, RI Score: 1239.

### Publication history

#### Peer review publications in international journals and book chapters

- 2023** Gremmel, J., **G. Duclaux**, M. Corsisni, J. Bascou (2023). *Constrictional flow and strain partitioning during oblique deformation: insights from the Variscan Tanneron massif, SE France* – preprint available via [EarthArXiv](#).
- Mondy, L., P. Rey, **G. Duclaux** (2023). *The role of surface processes in basin inversion and breakup unconformity* – *Geology*, v. 51 (2), p. 220–224.
- 2022** Desormeaux, C., V. Godard, D. Lague, **Duclaux, G.**, J. Fleury, L. Benedetti, O. Bellier, and ASTER Team (2022). *Investigation of stochastic-threshold incision models across a climatic and morphological gradient*. – *Earth Surface Dynamics*, v. 10 (3), p. 473–492.

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- Pechlivanidou, S., A.H. Geurts, **Duclaux, G.**, R. Gawthorpe, C. Pennos, and E. Finch (2022). *Contrasting geomorphic and stratigraphic responses to normal fault development during single and multi-phase rifting*. – *Frontiers in Earth Science*, 1160.
- 2021** Jourdon, A., C. Kergaravat, **G. Duclaux**, C. Huguenot (2020). *Looking beyond kinematics: 3D thermo-mechanical modelling reveals the dynamics of transform margins* – *Solid Earth*, v. 12 (5), p. 1211–1232.
- 2020** Voisine, E., Y. Rolland, M. Bernet, J. Carcaillet, **G. Duclaux**, J. Bascou, R.P. Ménot (2020). *Antarctic erosion history reconstructed by Terre Adélie moraine geochronology* – *Antarctic Science*, p. 1–14.
- Duclaux, G.**, R. Huisman, D. May (2020). *Rotation, narrowing, and preferential reactivation of brittle structures during oblique rifting* – *Earth and Planetary Sciences Letters*, v. 531, 115952.
- Naumenko-Dèzes, M.O., Y. Rolland, G. Lamarque, **G. Duclaux**, S. Gallet, J. Bascou, and R.P. Ménot (2020). *Petrochronology of the Terre Adélie Craton (East Antarctica) evidences a long-lasting Proterozoic (1.7–1.5 Ga) tectono-metamorphic evolution – Insights for the connections with the Gawler Craton and Laurentia* – *Gondwana Research*, v. 81, p. 21–57.
- 2019** Petit, C., L. de Barros, **G. Duclaux**, Y. Mazabraud (2019). *Why Are There No Earthquakes in the Intracratonic Paris Basin? Insights from Flexural Models* – *Geosciences*, v. 9 (12), 502.
- Beucher, R., L. Moresi, J. Giordani, J. Mansour, D. Sandiford, R. Farrington, L. Mondy, C. Mallard, P. Rey, **G. Duclaux**, O. Kaluza (2019). *UWGeodynamics: A teaching and research tool for numerical geodynamic modelling* – *Journal of Open Source Software*, v. 4 (36), 1136.
- Pechlivanidou, S., P. Cowie, **G. Duclaux**, C. Nixon, R. Gawthorpe, T. Salles (2019). *Tipping the balance: Shifts in sediment production in an active rift setting* – *Geology*, v. 47 (3), p. 259–262.
- De Gelder, G., D. Fernández-Blanco, D. Melnick, **G. Duclaux**, R. Bell, J. Jara-Muñoz, R. Armijo, R. Lacassin (2019). *Lithospheric flexure and rheology determined by climate cycle markers in the Corinth Rift* – *Scientific Report*, v. 9 (1), 4260.
- 2019** Guillot, S., Y. Agbossoumondé, J. Bascou, J. Berger, **G. Duclaux**, N. Hilairet, R.-P. Ménot, S. Schwartz (2019). *Transition from subduction to collision recorded in the Pan-African arc complexes (Mali to Ghana)* – *Precambrian Research*, v. 320, p.111–129.
- Rolland, Y., M. Bernet, P. van der Beek, C. Gautheron, **G. Duclaux**, J. Bascou, M. Balvay, L. Héraudet, C. Sue, R.-P. Ménot (submitted). *Late Paleozoic Ice Age glaciers shaped East Antarctica landscape* – *Earth and Planetary Sciences Letters*, v. 506, p. 123–133.
- Wu, H., Y. Ji, C. Wu, **G. Duclaux**, H. Wu, L. Chonglong, L. Chang (2019). *Stratigraphic response to spatiotemporally varying tectonic forcing in rifted continental basin: Insight from a coupled tectonic-stratigraphic numerical model* – *Basin Research*, v.31 (2), p. 311–336.
- 2018** Geurts, A., P. Cowie, **G. Duclaux**, R. Gawthorpe, R. Huisman, V. Pedersen, L. Wedmore (2018). *Drainage integration and sediment dispersal in the actively extending central Italian Apennines: Insights from numerical modelling* – *Basin Research*, v. 30 (5), p. 965–989.
- Bell, R., **G. Duclaux**, C. Nixon, R. Gawthorpe, L. McNeill (2018). *High-angle, not low-angle, normal faults dominate early rift extension in the Corinth Rift* *Geology*, v. 46 (2), p. 115–118.
- Mondy, L., P. Rey, **G. Duclaux**, L. Moresi (2018). *The role of asthenospheric flow during rift propagation and breakup* – *Geology*, v. 46 (2), p. 103–106. **\*Highlighted in Geology Research focus.**
- 2017** Gazley, M., **G. Duclaux**, M. Pearce, L. Fisher, E. du Plessis, S. Murray, R. Hough (2017). *Plutonic Gold Mine* – invited paper, *Australian Ore Deposits*, Edition: Monograph 32, Chapter: Yilgarn Craton, Publisher: The AusIMM, Editor: Neil Phillips, p. 307–312.
- Ramanaidou, E., M. Wells, R. Morris, **G. Duclaux**, N. Evans, M. Danisik (2017). *The Channel iron deposits of the Pilbara Region of Western Australia* – invited paper, *Australian Ore Deposits*, Edition: Monograph 32, Chapter: Pilbara Craton, Publisher: The AusIMM, Editor: Neil Phillips, p. 375–380.
- Rey, P., L. Mondy, **G. Duclaux**, C. Teyssier, D. Whitney, M. Bocher, C. Prigent (2017). *The origin of contractional structures in extensional gneiss domes; REPLY TO COMMENT* – *Geology*, v. 45 (6), p. e416.



- Rey, P., L. Mondy, **G. Duclaux**, C. Teyssier, D. Whitney, M. Bocher, C. Prigent (2017). *The origin of contractional structures in extensional gneiss domes* – *Geology*, v. 45 (3) , p. 263–266.
- 2015 Bianchi, V., T. Salles, M. Ghinassi, P. Billi, E. Dallanave, **G. Duclaux** (2015). *Numerical modelling of tectonically-driven deposition in upland incised valleys: the case of the Pliocene–Pleistocene Ambra valley (Tuscany, Italy)* – *Geomorphology*, v. 241, p. 353–370.
- Salles, T., **G. Duclaux** (2015). *Combined hillslope diffusion and sediment transport simulation applied to landscape dynamics modelling* – *Earth Surface Processes and Landform*, v. 40 (6), p. 823–839, doi:10.1002/esp.3674.
- Gazley, M., **G. Duclaux**, L. Fisher, C. Tutt, A. Latham, R. Hough, M. Taylor, S. de Beer (2015). *A comprehensive approach to understanding ore deposits using portable X-ray fluorescence (pXRF) data: Plutonic Gold Mine, Western Australia* – invited publication, *Geochemistry: Exploration, Environment, Analysis*, doi:10.1144/geochem2014-280.
- 2014 Riel, N., J.E. Martelat, E. Jaillard, S. Guillot, P. Monié, J. Yuquilema, **G. Duclaux**, J. Mercier (2014). *Forearc tectono-thermal evolution of the El Oro metamorphic province (Ecuador) during the Mesozoic* – *Tectonics*, 33, p. 1989–2012, doi:10.1002/2014TC003618.
- Gazley, M., C. Tutt, L. Fisher, A. Latham, **G. Duclaux**, M. Taylor, S. de Beer (2014). *Objective geological logging using portable XRF geochemical multi-element data at Plutonic Gold Mine, Marymia Inlier, Western Australia* – *Journal of Geochemical Exploration*, v. 143, p. 74–83.
- Gazley, M., C. Tutt, L. Brisboud, L. Fisher, **G. Duclaux** (2014). *Application of portable X-ray fluorescence analysis to characterise dolerite dykes at Plutonic Gold Mine, Western Australia* – *Geochemistry: Exploration, Environment, Analysis*, doi:10.1144/geochem2014-270.
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