

## Curriculum Vitae

### Dr. Eline Le Breton

MSc and PhD in Geology

*Docteur Agrégée en Sciences de la Terre*

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Phone: +49 30 838 70109

Birth: 03.16.1983, Caen, France

Nationality: French

Married, 1 child (born in 2014)

### Research Interests

- Plate tectonics and kinematic reconstructions, geodynamics, structural geology
- Interaction of mantle, crust and surface motions during lithospheric extension and orogenesis

### Professional Experience

Oct. 2012 – <i>currently</i>	<b>Postdoctoral Research Associate and Lecturer</b> (Wissenschaftliche Mitarbeiterin), Freie Universität Berlin, Germany
Oct. 2011 – Aug. 2012	<b>Research and Teaching Assistant</b> (ATER), University of Rennes 1, France
Oct. 2008 – Sept. 2011	<b>Teaching Assistant</b> (Monitrice), University of Rennes 1, France
Feb. – July 2010	<b>Internship at Chevron</b> , Houston, Texas Seismic interpretation and numerical modelling
July – August 2005	<b>Research internship</b> in the Remote Sensing Group, Technische Universität Bergakademie Freiberg, Germany Topic: <i>Neotectonic in Tibet and Pamirs, satellite images and river profiles analyses</i>

### University Education

Oct. 2008 – March 2012	<b>PhD in tectonics</b> under the supervision of P.R. Cobbold, University of Rennes 1, France Topic: <i>Differential spreading along the NE Atlantic ridge system and post-breakup deformation of the adjacent continental margins</i>
Sept. 2007 – June 2008	<b>MSc of Geology</b> , University of Rennes 1, France MSc Thesis: <i>Post-glacial rebound of Iceland during the Holocene</i>
Sept. 2006 – July 2007	<b>Agrégation SVTU</b> , Highest National Teacher Competitive Examination in Life, Earth and Universe Sciences; Rank: 34 <sup>th</sup> of France (out of 1489 candidates)
Sept. 2005 – July 2006	<b>Capes SVT</b> , National Teacher Competitive Examination in Life and Earth Sciences Rank: 5 <sup>th</sup> of France (out of 3770 candidates)
Sept. 2004 – June 2005	<b>Maîtrise SVT</b> , 1 <sup>st</sup> year MSc of Life and Earth Sciences, University of Rennes 1, France
Sept. 2003 – June 2004	<b>ERASMUS</b> Student, University of Iceland, Reykjavik
Sept. 2000 – June 2003	<b>Licence SVT</b> , BSc of Life and Earth Sciences, University of Caen, France

## Publications with peer review process

3. **Le Breton E.**, P.R. Cobbold and A. Zanella (2013). Cenozoic reactivation of the Great Glen Fault, Scotland: Additional Evidence and Possible Causes. *Journal of the Geological Society, London*, 170, 403-415, doi:10.1144/jgs2012-067.
2. **Le Breton E.**, P.R. Cobbold, O. Dauteuil and G. Lewis (2012). Variation in amount and direction of sea-floor spreading along the North East Atlantic Ocean and resulting deformation of the continental margin of North West Europe. *Tectonics*, 31, TC5006, doi:10.1029/2011TC003087.
1. **Le Breton E.**, O. Dauteuil and G. Biessy (2010). Post-glacial rebound of Iceland during the Holocene. *Journal of the Geological Society, London*, 167, 417-432, doi:10.1144/0016-76492008-126.

## Submitted publication with peer review process

**Le Breton E.**, M.R. Handy and K. Ustaszewski (ready to be submitted to **Tectonics**). Balancing shortening and extension around the Adriatic Plate to constrain its post-20 Ma independent motion and driving forces.

## Monograph

**Le Breton E.** (2012). Differential spreading along the NE Atlantic ridge system and post-breakup deformation of the adjacent continental margins. *Mémoires de Géosciences Rennes*, 141, ISBN 2-914375-82-4.

## Conference abstracts

17. Handy M.R., B. Fügenschuh, J. Giese, **E. Le Breton**, B. Muceku, K. Onuzi, J. Pleuger, S.M. Schmid and K. Ustaszewski (2015). Orogen-parallel and -normal extension at the Dinarides-Hellenides junction during clockwise rotation and radial expansion of the retreating Hellenic arc-trench system. AGU 2015-T23F-06, 2015 AGU Fall Meeting.
16. **Le Breton E.**, M.R. Handy and K. Ustaszewski (2015). Balancing shortening and extension around the Adriatic Plate to constrain its independent motion and driving forces since Late Cretaceous time. AGU 2015-T13B-2983, 2015 AGU Fall Meeting.
15. Handy M.R., S. Cionoiu, J. Giese, P. Groß, **E. Le Breton**, K. Onuzi, J. Pleuger, S.M. Schmid, K. Ustaszewski and S. Zertani (2015): Overlapping orogen-parallel and orogen-normal extension (Northern Albania) related to ongoing clockwise rotation at the junction of the Dinarides and Hellenides. *GeoBerlin 2015, Berlin, Germany*.
14. **Le Breton E.**, M.R. Handy and K. Ustaszewski (2015). Kinematic reconstructions and possible driving forces of the Adriatic microplate. *GeoBerlin 2015, Berlin, Germany*.
13. Groß P., S. Zertani, S. Cionoiu, C. Deutsch, S. Evseev, D. Wanneck, J. Giese, **E. Le Breton**, M.R. Handy, K. Onuzi, J. Pleuger, K. Ustaszewski, 2014. A new 1:10,000 geological map of the Skutari-Pec Normal Fault and surroundings, northern Albania – evidence of orogen-parallel extension. XX Congress of the Carpathian Balkan geological Association, CBGA 2014, Tirana, Albania.
12. Handy M.R., S.R. Schmid, **E. Le Breton**, J. Giese, K. Onuzi, J. Pleuger, K. Ustaszewski, S. Cionoiu, C. Deutsch, S. Evseev, P. Groß, D. Wanneck, S. Zertani, 2014. Tectonics of rotation at the western end of the Skutari-Pec Normal Fault (SPNF). XX Congress of the Carpathian Balkan geological Association, CBGA 2014, Tirana, Albania.

11. **Le Breton E.** and M.R. Handy (2014). Kinematic reconstructions of the Western Mediterranean area – a key to understanding the independent motion of the Adriatic microplate. *15th Symposium on Tectonics, Structural Geology and Geology of Crystalline Rocks*, TSK15 Potsdam 2014.
10. Wanneck D., P. Groß, S. Cionoiu, C. Deutsch, S. Evseev, S. Zertani, J. Giese, **E. Le Breton**, M.R. Handy, K. Onuzi, J. Pleuger and K. Ustaszewski (2014). A new 1:10,000 geological map of the Skutari-Pec Fault and surroundings, northern Albania – evidence of orogen-parallel extension. *15th Symposium on Tectonics, Structural Geology and Geology of Crystalline Rocks*, TSK15 Potsdam 2014.
9. Zertani S., S. Cionoiu, C. Deutsch, S. Evseev, P. Groß, D. Wanneck, M.R. Handy, K. Ustaszewski, J. Giese, **E. Le Breton**, J. Pleuger and K. Onuzi (2014). Structure and Kinematics of the Skutari-Pec-Fault in northern Albania. *15th Symposium on Tectonics, Structural Geology and Geology of Crystalline Rocks*, TSK15 Potsdam 2014.
8. **Le Breton E.** and M.R. Handy (2013). Evaluating kinematic reconstructions of deformable and independent microplates - the example of the Western Mediterranean – Alpine system. *2013 AGU Fall Meeting*.
7. **Le Breton E.**, P.R. Cobbold and O. Dauteuil (2012). Differential sea-floor spreading along the NE Atlantic ridge system and resulting deformation of the NW European Margin. *Onshore-Offshore relationship on the North Atlantic Margin, Trondheim*, 2012.
6. **Le Breton E.**, P.R. Cobbold and O. Dauteuil (2012). Palinspastic reconstruction of the opening of the NE Atlantic: differential sea-floor spreading and resulting deformation of the NW European Margin. *Geophysical Research Abstracts*, Vol. 14, EGU2012-7354. EGU General Assembly 2012.
5. **Le Breton E.**, P.R. Cobbold and A. Zanella (2012). Cenozoic right-lateral slip on the Great Glen Fault, Scotland: Additional Evidence and Possible Causes. *Geophysical Research Abstracts*, Vol. 14, EGU2012-3543-1. EGU General Assembly 2012.
4. **Le Breton E.**, P.R. Cobbold, P. Roperch and O. Dauteuil (2011). Ridge-plume interaction and differential spreading along the northern North Atlantic ridge and resulting Cenozoic compressional deformation of the NE Atlantic margin. *Geophysical Research Abstracts*, Vol. 13, EGU2011-6001. EGU General Assembly 2011.
3. **Le Breton E.**, P.R. Cobbold, P. Roperch and O. Dauteuil (2010). Differential spreading along the northern North Atlantic ridge and resulting intraplate deformation of the adjacent continental margins. *2010 AGU Fall Meeting*.
2. **Le Breton E.**, P.R. Cobbold, P. Roperch and O. Dauteuil (2010). Differential seafloor spreading of the North Atlantic and consequent deformation of adjacent continental margins. *Geophysical Research Abstracts*, Vol. 12, EGU2010-4132. EGU General Assembly 2010.
1. **Le Breton E.**, O. Dauteuil and G. Biessy (2010). Post-glacial rebound of Iceland during the Holocene. *Geophysical Research Abstracts*, Vol. 12, EGU2010-3543. EGU General Assembly 2010.

## Grants - Awards

- **DFG Research Grant** (€58.650, main PI, BR 4900/2-1), KAPMED Project (2015-2018)
- **PROMOS Travel Grant** (€ 2160), Field Trip in Bretagne, France, Sept. 2016
- **FU Berlin Internal Women's Support Program** (€7000), Oct. 2015 - Oct. 2016
- **DAAD Travel Grant** (€1946), AGU Fall Meeting 2013
- **Student Travel Grant** (\$1000), AGU Fall Meeting 2010
- **Outstanding Student Paper Award** (\$200), Section Geodesy, AGU Fall Meeting 2010

## Teaching

At the Freie Universität Berlin, Germany (since 2012):

- Tectonics of Sedimentary Basins (MSc of Earth Sciences)
- Seminar for current research (MSc of Earth Sciences)
- Introduction to field mapping (BSc of Earth Sciences)
- Field work in the Rheinisches Schiefergebirge, the Erzgebirge and the Armorican Massif (BSc and MSc of Earth Sciences)

At the University of Rennes 1, France (2008-2012):

- Tectonics (MSc of Earth Sciences)
- Magmatism and Volcanology (BSc of Mechanics, Physics and Chemistry)
- Mapping techniques (BSc of Life and Earth Sciences)
- Magmatic Petrology (BSc of Earth Sciences)
- Preparation to CAPES and Agrégation (MSc of Life and Earth Sciences)
- Field work in the Armorican Massif, the Pyrenees and the Montagne Noire (BSc and MSc of Earth Sciences)

## Skills

Languages	French: native English: fluent German: proficient Icelandic: fair
Computing	<u>Operating System</u> : Windows, OSX, UNIX; Applied knowledge <u>GIS</u> : ArcMap; Applied knowledge <u>Modelling</u> : GPlates/SeisWorks/Gocad/Move - Fortran/C/SCILAB; Applied knowledge <u>Image editing</u> : Adobe series; Applied knowledge <u>Statistics &amp; Data management</u> : Origin/KaleidaGraph; Applied knowledge

## Professional Service

2012-currently	Reviewer for <i>Gondwana Research</i> , <i>International Geology Review</i> and <i>Palaeo-3</i>
2010-currently	Member of the American Geophysical Union (AGU), European Geosciences Union (EGU) and Deutsche Geologische Gesellschaft - Geologische Veriningung (DGGV)
Sept. 2007 – Sept. 2008	Elected President of the “Geocontact” Student Association, Rennes (organisation of seminars and excursions)
Sept. 2006 – July 2007	Elected Secretary of the “Atout Prépa” Student Association, Rennes (preparation for National Teacher Competitive Examinations, CAPES and Agrégation, of Life and Earth Sciences)