

## Personal details

Name: Sebastian Wiesmaier, Ph.D.  
Born: 26 July 1977 in Munich, Germany  
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Languages:     German (native)  
                  English (fluent)  
                  Spanish (fluent)  
                  French (good)



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## Academic career and employment

- May 2014 – Dec 2015:     **Postdoctoral position** at Ludwig-Maximilians-Universität München, Dept. Earth and Environmental Sciences. Thermal analysis (TG, DSC, dilatometry), rock deformation (uniaxial compressive tests). “*Liability of basement rocks to contact metamorphism*”.
- Feb 2011 – Apr 2014:     **Postdoctoral position** at Ludwig-Maximilians-Universität München, Dept. Earth and Environmental Sciences. Experimental mixing of silicate melts and microanalysis of experimental glasses. Analysis and interpretation of 3D datasets in MATLAB-code “Tomoview”. “*Magma mixing enhanced by bubble segregation*”.
- Feb 2010 – Aug 2010:     **Field and lab assistant** in joint project of University of Barcelona, CSIC Jaume-Almera Barcelona, CSIC La Laguna and University of Las Palmas, financed by Compañía Española De Petroleos, S.A. (CEPSA), Madrid. “*Impact of oil refineries on soil and air contamination in an urban setting at the example of Santa Cruz de Tenerife*”.
- Nov 2008 – Jan 2010:     **PhD awarded at Trinity College Dublin** on 12 Nov 2010. Continuation of PhD project with new supervisor Dr. David Chew at Trinity College Dublin, in collaboration with Prof. Juan Carlos Carracedo (CSIC, Tenerife, Spain) and Prof. Valentin Troll (Uppsala University, Sweden). Viva passed with minor corrections (16 Feb 2010).
- Nov 2005 – Oct 2008:     **Combined Masters and PhD project** “*Magmatic differentiation and bimodality in oceanic island settings – Implications for the petrogenesis of magma in Tenerife, Spain.*” Trinity College Dublin, Ireland (supervision Prof. V. Troll).
- Oct 2004 – Oct 2005:     **BSc. Geosciences** at University of Bremen with degree of 1.6, awarded 24 Oct 2005  
BSc. Thesis awarded with degree of 1.3 (excellent). “*Characterisation of terrigenous input off Northwest Africa*”.
- Oct 2001 – Sep 2004:     **Vordiplom** in Geology/Paleontology at Ludwig-Maximilians-Universität (LMU), Munich (overall mark: 1.6, very good).
- Oct 1998 – Sep 2001:     **Mechanical engineering** at Technische Universität München (TUM), Munich  
Main courses: Material science, engineering mechanics and electrical engineering.

## Additional professional development

- Feb 2011–present:       **Management of European Research Council grant** (holder: Prof. D.B. Dingwell).
- Mar 2007:               **Ground investigations** on various construction sites all over Ireland for Homebond Insurance, Construction House, Canal Road, Dublin 6, Ireland.
- Feb 2007:               **Field assistant** to a National Geographic-funded project led by Prof. V. Troll. *“Internal structure of volcanoes: paleomagnetic drilling and subsequent 3D-orientation of cores in underground mines on Tenerife”*.
- Jun 2003 – Jun 2004:   **Geotechnical lab and field experiments** (subsoil exploration) at Dr. Stadtbäumer Consulting, Rotwandstrasse 10, 85609 Aschheim, Germany.

## Teaching activities

### Courses taught:

- **Geomaterialien I**, lecture, first semester at undergraduate level, 2h/week (wintersemester 2015/16)
- **Rocks**, teaching and lab, second-year, undergraduate level, 4h/week (summersemester 2013)
- **Crust and mantle petrology**, MSc. level, 3h/week (wintersemester 2012/13)
- **Petrography**, Spanish second-level students during “semana científica” (science week) at CSIC La Laguna, Tenerife (July 2009)
- **Introduction to geological maps**, tutor, Senior Freshmen (summersemester 2007, wintersemester 2006–2007)
- **Igneous petrology and geochemistry**, tutor, Junior Sophister (wintersemester 2006–2007)
- **Geology for engineers**, tutor, Senior Freshmen (summersemester 2006)

### Field trips:

- 2012 – 2015: **Canary Islands (Spain)** annual field trip. 32 students (4 lecturers) over 2 weeks. Topic: Volcanoes in the field from effusive to explosive.
- 2012: **South Tyrol (Italy)**. 26 students (3 lecturers) over 3 days. Permian supereruptive deposits of the Etschtal group and subsequent sedimentary sequences.

### Student supervisions:

- Cora McKenna, BA., Trinity College Dublin, 2006
- Louise Caulfield, BA., Trinity College Dublin, 2006
- Dominik Fahrner, BSc., Ludwig-Maximilians-Universität München, 2012
- Jenny Schauroth, BSc., Ludwig-Maximilians-Universität München, 2013
- Christof Auer, MSc., Ludwig-Maximilians-Universität München, 2013
- Christian Renggli, MSc., Ludwig-Maximilians-Universität München, 2013

### **Contributions to discipline**

- Contributing author to “The Geology of the Canary Islands” by J.C. Carracedo & V.R. Troll (in press).
- Managing editor to book publication:  
Carracedo J.C., Troll V.R. (eds.) (2013) Teide Volcano - Geology and Eruptions of a Highly Differentiated Oceanic Stratovolcano. Springer, Berlin Heidelberg, p 279.
- Reviews of manuscripts for international journals and grant applications for German and UK research councils.

### **Society memberships**

Aug 2006 - present: American Geophysical Union (AGU)

May 2007 - present: European Association of Geochemistry (EAG)

Jan 2008 - present: International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI)

### **Science communication**

2007-2008: **Science editor** at college-internal newspaper Trinity News. Communication and presentation of cutting-edge Trinity College research projects in journalistic form.

### **Recent collaborations**

Prof. H.-Albert Gilg, Technische Universität München, Germany

Prof. Yan Lavallée, University of Liverpool, UK

Dr. Felix von Aulock, University of Liverpool, UK

Dr. Michael Heap, Institut de Physique du Globe de Strasbourg, France

Dr. Stefano Branca, INGV Catania, Italy

Dr. Diego Perugini, University of Perugia, Italy

Prof. Cristina de Campos, Ludwig-Maximilians-Universität München, Germany

Prof. Juan Carlos Carracedo, Universidad de Las Palmas de Gran Canaria, Spain