

**Julien SCHEIBERT** (born 17/07/1979)

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## RESEARCH POSITIONS

- From 2011 : **Chargé de Recherches CNRS** (CR1 from 02/2015), LTDS, Ecole Centrale de Lyon
- 2009-11: **Contractual Researcher**, Center of Excellence PGP, University of Oslo, Norway
- 2008: **Contractual Research Engineer** at SPCSI, CEA-Saclay, France
- 2007: **Contractual researcher**, CNRS (3 months)
- 2006-07: **Contractual Assistant Professor**, University Paris 7
- 2003-06: **PhD**, University Paris 6, Lab. of Statistical Physics, Ecole Normale Supérieure

## RESEARCH ACTIVITIES

My research focuses on the **rupture dynamics of heterogeneous solid interfaces**, especially the friction and fracture of polymeric solids.

My strategy is based on **model experiments**, the results of which are amenable to **quantitative comparison with theoretical models or numerical simulations**.

Currently, my main goal is to identify the **dominant mechanisms in the onset of sliding** of interfaces involving elastomers, and the parameters involved in the **selection of the static friction force**.

The fields of application include engineering mechanics, geophysics, volcanology and robotics.

## EDUCATION AND DISTINCTIONS

- 2012-15 : **Marie Curie Fellow (Career Integration Grant, FP7)**
- 2009-10 : **Marie Curie Fellow (Intra European Fellowship, FP7)**
- 2008 : **Edouard Branly prize** (young researcher prize awarded by SFP, SEE and Thalès)
- 2007 : **PhD in Physics**, Specialty Condensed Matter, University Paris 6, with distinction
- 2003 : **“Agrégation” in Physics** (recruiting exam of French Secondary School teachers)
- 2002 : **“Magistère” in Material Science de la Matière**, with distinction, ENS-Lyon including **6 months of Erasmus exchange** at University la Sapienza, Rome

## SCIENTIFIC OUTPUTS

<u>Articles in peer-reviewed journals :</u>	21	(see list below)
<u>Book :</u>	1	
<u>Articles in peer-reviewed national journals :</u>	2	
<u>Peer-reviewed proceedings:</u>	8	
<u>Oral Communications :</u>		
Invited conference :	4	
International Conferences :	19	
National Conferences :	12	
Invited Seminars :	18	
Other communications :	23	
Posters :	27	

My main scientific results have been commented upon in various science-related media:

- Role of fingerprints in touch (*Science* 2009): [Nature news](#), [Science news](#), [Nature Research highlights](#), [Science signaling](#), [Nature Methods](#), [analytical chemistry](#), [Science news magazine](#), [Atten. Percept & Psych](#),...
- Quasibrittle dynamic fracture (*PRL* 2010): [Physics Focus](#), [Highlight CEA-IRAMIS](#)
- Precursors to sliding (*PRL* 2011): [Newsletter CNRS](#)
- Microcracks accelerate dynamic fracture (*PNAS* 2012): [National Press Release from CNRS](#), [Fait Marquant CEA-IRAMIS-SPCSI](#), [In this Issue \(PNAS\)](#), [La Recherche](#), [Journal du CNRS](#),...
- Slow fronts at the onset of sliding (*PNAS* 2014): [CNRS News](#), [Dagens Naeringsliv](#)

## OTHER ACTIVITIES

- 2014: Organizer of the international workshop “[Friction along interfaces](#)”, Oslo (June 2<sup>nd</sup>)
- 2009: Member of Scientific Board of the workshop « [Tactile sensing in Humanoids – Tactile Sensors and beyond](#) » related to the international conference Humanoids 2009 (Paris)
- Referee for: *Science*, *Physical Review Letters*, *Physical Review X*, *Physical Review E*, *Scientific Reports*, *Journal of the Mechanics and Physics of Solids*, *Tribology Letters*, *IEEE Transactions on Robotics*, *Sensors and Actuators A: Physical*, *Tribology International*, *Journal of Mechanical Engineering and Technology*, *Wear*

## INTERNATIONAL COLLABORATIONS

- “[Physics of Geological Processes](#)”, Department of Physics, University of Oslo, Oslo, Norway  
Group of [Anders Malthe-Sørenssen](#): onset of sliding  
Group of [Olivier Galland](#): volcanology  
National Academy of Sciences of Ukraine, Kiev, Ukraine  
Group of [Oleg Braun](#): friction

## TEACHING EXPERIENCE

- Current students: **4 PhD, 1 postdoc**                      Former students: 1 PhD, 6 masters, 2 undergraduate
- From 2012:    **Vacataire at Ecole Centrale de Lyon**
- 2006-07 :    **Contractual Assistant Professor in Physics**, University Paris 7 (96 hours)
- 2003-06 :    **”Moniteur” in physics**, University Marne-la-Vallée (192 hours)