

CURRICULUM VITAE FOR JAMES IRVING, APRIL 2012

CONTACT INFORMATION

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ACADEMIC POSITIONS HELD

2011-Present Senior Lecturer, Institute of Geophysics, University of Lausanne, Switzerland

2011-Present Adjunct Faculty, School of Engineering, University of Guelph, Canada

2010 Assistant Professor, School of Engineering, University of Guelph, Canada

2007-2009 Postdoctoral Fellow, Institute of Geophysics, University of Lausanne, Switzerland

EDUCATION

2006 PhD (Geophysics), Stanford University, USA

2000 MSc (Geophysics), University of British Columbia, Canada

1997 BSc (Earth Sciences), University of Waterloo, Canada

AWARDS AND FELLOWSHIPS

2011 Environmental and Engineering Geophysical Society and Geonics Early Career Award

2006 NSERC Post-Doctoral Fellowship, University of British Columbia, 2006 (declined)

2006 Outstanding Student Paper Award in Near-Surface Geophysics, AGU Joint Assembly Meeting

2004 Outstanding Student Paper Award in Hydrology, AGU Fall Meeting

2003 Chair's Fellowship for Inter-Group Research, Geophysics Department, Stanford University

2000-2001 NSERC Post-Graduate Level B Scholarship, University of British Columbia

2000 University Graduate Fellowship, University of British Columbia (declined)

1997-1999 NSERC Post-Graduate Level A Scholarship, University of British Columbia

1997,1999,2000 MacKay Memorial Scholarships, University of British Columbia

1992-1996 Canada Scholarship, University of Waterloo

1995 Rio Algom Award (Canada Scholarships Program), University of Waterloo

1995 Canadian Society of Petroleum Geologists Undergraduate Award, University of Waterloo

1995 Canadian Society of Petroleum Geologists Industry Field Trip Award, University of Waterloo

1994,1995 NSERC Undergraduate Student Research Awards, University of Waterloo

1994,1995 J.P. Bickell Foundation Scholarships, University of Waterloo

1992 Earth Sciences Entrance Scholarship, University of Waterloo

PROFESSIONAL SERVICE

2009-Present Associate Editor, *Geophysics*
 2011-Present President, SEG Near-Surface Geophysics Section
 2010-Present SEG Near-Surface Geophysics Task Force
 2012 Technical Program Committee and Forum Chair, SEG 82nd Annual Meeting, Las Vegas, NV
 2012 Organizing Committee, SEG Hydrogeophysics Workshop, Boise, ID
 2012 Scientific Committee, GPR2012 Conference, Shanghai, China
 2011 Session Convener, Geophysical Inverse Problem Uncertainty Workshop, Leiden, Netherlands
 2011 Session Organizer, AGU Fall Meeting, San Francisco, CA
 2011 Technical Program Committee, SEG 81st Annual Meeting, San Antonio, TX
 2010-2011 President-Elect, SEG Near-Surface Geophysics Section Executive Committee
 2005-2010 Secretary, SEG Near-Surface Geophysics Section Executive Committee
 2010 Session Chair and Organizer, AGU Meeting of the Americas, Foz Iguacu, Brazil
 2008 Session Chair and Organizer, EGU Annual Meeting, Vienna, Austria
 2007 Session Chair and Organizer, AGU Fall Meeting, San Francisco, CA
 2006 Session Organizer, AGU Joint Assembly Meeting, Acapulco, Mexico
 2006 Session Chair and Organizer, AGU Joint Assembly Meeting, Baltimore, MD
 2005 Session Chair, SEG 75th Annual Meeting, Houston, TX
 1994-1996 President, Earth Sciences Undergraduate Student Society, University of Waterloo

FUNDED RESEARCH PROPOSALS

2012-2014 “Assessing and accounting for the effects of model error in Bayesian solutions to hydrogeophysical inverse problems”, Swiss National Science Foundation, 164’000 CHF (PI)
 2012 Fondation Herbette Fellowship to support visit of Prof. Beth Parker, 13’200 CHF
 2010-2014 “Stochastic assimilation of geophysical and hydrological data for the estimation of hydraulic conductivity”, Canadian NSERC Discovery Grant, 100’000 CAD (PI)
 2008-2012 “Bayesian-Markov-chain-Monte-Carlo integration of geophysical and hydrological data for the stochastic characterization of heterogeneous aquifers”, Swiss National Science Foundation, 236’000 CHF (PI)

INVITED TALKS

2012 ETH Zürich Institute of Geophysics Seminar
 2011 Geophysical Inverse Problem Uncertainty Workshop, Leiden, Netherlands
 2011 EEGS/Geonics Early Career Award Luncheon Lecture, SAGEEP Conference, Charleston, SC
 2010 AGU Fall Meeting, San Francisco, CA
 2009 Near-Surface Seismology and GPR Workshop, SEG 79th Annual Meeting, Houston, TX
 2008 AGU Fall Meeting, San Francisco, CA
 2007 AGU Fall Meeting, San Francisco, CA

GRADUATE STUDENTS AND POST-DOCS

- 2011-Present Dr. Stefano Marelli, Post-Doc, Institute of Geophysics, University of Lausanne
- 2010-Present Paolo Ruggeri, PhD candidate, Institute of Geophysics, University of Lausanne (co-supervised)
Best Student Paper Award, GeoHydro Conference, Quebec, Canada, 2011
- 2009-Present Marie Scholer, PhD candidate, Institute of Geophysics, University of Lausanne (co-supervised)
Outstanding Student Paper Award in Hydrology, AGU Fall Meeting, San Francisco, CA, 2011
- 2007-2011 Florian Belina, PhD, Institute of Geophysics, University of Lausanne (co-supervised)
“Source wavelet estimation for waveform inversion of crosshole georadar data”
- 2006-2009 Baptiste Dafflon, PhD, Institute of Geophysics, University of Lausanne (co-supervised)
“Integration of high-resolution geophysical data for the characterization of alluvial aquifers”
Faculty Prize for PhD Thesis, University of Lausanne, 2009
Outstanding Student Paper Award in Hydrology, AGU Fall Meeting, San Francisco, CA, 2007
- 2008 Marie Scholer, MEng, Institute of Geophysics, University of Lausanne (co-supervised)

PUBLICATIONS

A complete list of James Irving's peer-reviewed publications can be found at the following web address:
<http://wwwpeople.unil.ch/james.irving/pubs.html>