Paul A Selvadurai

CONTACT INFORMATION

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RESEARCH INTERESTS

Friction and fracture in deformable bodies: Contact mechanics ▪ Fracture mechanics ▪ Wave propagation theory ▪ Frictional Dynamics ▪ Porous media flow ▪ Finite element modelling ▪ Sensor development ▪ Calibration methods

EDUCATION

University of California, Berkeley, Berkeley, USA

- Ph.D., Civil and Environmental Engineering, December 2015;
- Thesis: "Laboratory Studies of Frictional Sliding and the Implications of Precursory Seismicity";
- Principle Advisor: Professor Steven D. Glaser;
- Advisor: Professor Douglas Dreger, Professor Alexendre Bayen;
- Viva Voce date: December 18th, 2015.

McGill University, Montréal, Canada

- M.Eng., Civil Engineering and Applied Mathematics, September 2010;
- Thesis: "Permeability of Indiana Limestone: Experiments and Theoretical Concepts for Interpretation of Results";
- Principle Advisor: Professor Yixin Shao.

McGill University, Montréal, Canada

- B.Sc., Mechanical Engineering, September 2007.

EMPLOYMENT HISTORY

Senior Researcher — *Present*
ETH Zürich, Switzerland

Postdoctoral Researcher — 2017-'21
ETH Zürich, Switzerland
Supervisor: Professor Dr. Stefan Wiemer

Research Specialist — 2016
University of California, Berkeley, USA
Supervisor: Professor Steven D. Glaser

Acoustic Emission (AE) Consultant — 2015
National Research Institute for Earth Science and Disaster Prevention, Tsukuba, JPN
Supervisor: Professor Eiichi Fukuyama

Research Assistant — 2011
Lawrence Berkeley National Laboratory, Berkeley, USA
Supervisor: Dr. Ernest L. Majer

Consultant — Jan. 2011
Nuclear Waste Management Organization of Ontario, Toronto, CAN

Laboratory Research Assistant — 2006-'10
McGill University, Montréal, CAN

AWARDS	**John Carter Award** International Association for Computer Methods and Advances in Geomechanics	2017
	Outstanding Student Paper Award in Seismology American Geophysical Union	2013
	Lady Jane Lewis Fellowship University of California, Berkeley	2010
	Award for Excellent Paper International Association for Computer Methods and Advances in Geomechanics	2011
GRANTS	**Swiss National Science Foundation** (200021_204429)	2021
	NSERC Postgraduate Scholarships-Doctoral (PGSD3-391943-2010)	2010
CURRENT ADVISING	H. Chen (Ph.D.) A. Salazar (Ph.D.) S. Michail (Ph.D.) R. Wu (Ph.D.) P. Bianchi (Ph.D)	
TEACHING	**Lecturer (651-4103-00L) Earthquakes II: Source physics (70%)** ETH Zürich (Graduate-level)	2018-‘19
	LabQuake(mini): A digital stick-slip slider experiment ETH Zürich (Graduate- and Undergraduate-level)	2018-‘19
	Teaching Assistant (CE 271): Sensors and Signal Interpretation University of California, Berkeley (Graduate-level)	2013-‘16
	Teaching Assistant (CIVE 207): Solid Mechanics McGill University (Undergraduate-level)	2009

PEER-REVIEWER IN SELECTED JOURNALS:

- Journal of Geophysical Research: Solid Earth
- Journal of Rock Mechanics and Geotechnical Engineering
- Pure and Applied Geophysics
- Rock Mechanics and Rock Engineering
- Annals of Glaciology
- Geology
- International Journal of Rock Mechanics and Mining Sciences
- Tectonophysics
- Earth and Planetary Science Letters
- Sensors
- Journal of Engineering Mathematics

ACTIVE MEMBER IN:

- American Geophysical Union (AGU)
- European Geophysical Union (EGU)
- Japanese Geophysical Union (JpGU)
- American Rock Mechanics Association (ARMA)
- International Society for Rock Mechanics and Rock Engineering (ISRM)
- International Association for Computer Methods and Advances in Geomechanics (IACMAG)