

Curriculum Vitae

Simone Puel

Born: 06 February 1992, Trento (TN), Italy
Citizenship: Italian

Address: 3108 Walling Drive, Austin (TX), USA
Phone: +1 (737)-230-6811
Skype: simone.puel
Personal email: simone.puel92@gmail.com
Email: spuel@utexas.edu
Email: spuel@mtu.edu
Email: s.puel@campus.unimib.it
Linkedin: www.linkedin.com/in/simonepuel



Education

- 08/2018 - present **University of Texas at Austin - Jackson School of Geosciences**, Ph.D. in GEOLOGICAL SCIENCES
Advisors: Dr. Thorsten W. Becker & Dr. Luc Lavier
- 08/2015 - 04/2017 **Michigan Technological University**, M.Sc. in GEOLOGY (International Geological Masters in Volcanology and Geotechniques, INVOGE Dual-Degree Program, <http://www.geo.mtu.edu/~raman/INVOGE/Welcome.html>)
Advisor: Dr. Gregory P. Waite
Thesis: *Comparison of Ambient Noise Methods to Find Surface - Wave Dispersion Curves at Pacaya Volcano, Guatemala*
Grade point average: 4.00/4.00 GPA *Summa Cum Laude*
- 11/2014 - 03/2017 **University of Milano-Bicocca**, M.Sc. in GEOLOGICAL SCIENCES AND TECHNOLOGIES
Advisor: Dr. Alessandro Tibaldi
Co-Advisor: Dr. Gregory P. Waite
Thesis: *Comparison of Ambient Noise Methods to Find Surface - Wave Dispersion Curves at Pacaya Volcano, Guatemala*
Final grade: 110/110 *Cum Laude*
Grade point average: 29.46/30 GPA
- 09/2011 - 10/2014 **University of Milano-Bicocca**, B.Sc. in GEOLOGICAL SCIENCES AND TECHNOLOGIES
Advisor: Dr. Alessandro Cavallo
Thesis: *The "Porphyry" of Trentino: Mineralogy, Petrography, Geochemistry and Hg-Porosimetry*
Final grade: 110/110 *Cum Laude*
Grade point average: 29.22/30 GPA
- 09/2006 - 07/2011 **Liceo Scientifico "G. Galilei"**, Trento (TN), Italy, High School Diploma
Final grade: 98/100

Participation in conferences, workshops and schools

- 10/2019 MCS RCN MEGATHRUST EARTHQUAKE MODELING WORKSHOP in Univ. of Oregon, USA
- 06/2019 2019 CRUSTAL DEFORMATION MODELING WORKSHOP organized by Computational Infrastructure for Geodynamics (CIG) in Golden, Colorado, USA.
Poster: "2D Benchmarks of PyLith and FEniCS for Visco-Elastic Subduction Zone Models"
- 05/2019 MCS RCN FLUID TRANSPORT MODELING WORKSHOP in Univ. of Minnesota, USA
- 12/2016 AGU FALL MEETING 2016 conference in San Francisco, California.
Poster (N° S11C-2459): "Spectral Variations in Volcanic Jet Noise: the Example of Stromboli Volcano, Italy"
Co-authors: Federica Lanza, Ezequiel F. Médici, Gregory P. Waite
- 05/2016 BACIO 2016 (Broadband Acquisition and Imaging Operation) workshop organized by INGV (National Institute of Geophysics and Volcanology) in Stromboli volcano, Italy

Work Experience

09/2018 - present	Graduate Research Assistant at University of Texas at Austin - Institute for Geophysics (UTIG)
01/2019 - 05/2019	Teaching Assistant at University of Texas at Austin - GEO 302E: "Earth, Wind and Fire"
12/2017 - 03/2018	Ski-lift head service at "Sciovia Pradis-ci S.N.C. di Bernardi Loris & C.", Trento, Italy
04/2017 - 12/2017	Post-degree traineeship in Engineering Geology and Hydrogeology at "Studio di Geologia e Idrogeologia di Frassinella Luigi", Trento, Italy
04/2014 - 08/2014	Stage at University of Milano-Bicocca using analytical techniques as: - Transmitted Light Optical Microscopy - Quantitative X-Ray Powder Diffraction (QXRPD, Rietveld method) - Scanning Electron Microscopy (SEM) combined with Energy Dispersive Spectroscopy analysis (EDS) - Energy Dispersive X-Ray Fluorescence (EDXRF) - Hg-porosimetry Tutor: Dr. Alessandro Cavallo

Fieldworks

10/2018 & 01/2019	Service run for the Mojave Seismic Experiment project, Mojave desert, California, USA
05/2016	Fieldwork of Infrasound Record at Stromboli volcano, Italy (BAcIO 2016 workshop)
06/2015	Fieldwork of Volcanology in Etna volcano, Sicily, Italy
06/2015	Fieldwork of Structural Geology in Valmalenco, Lombardia, Italy
07/2014	Fieldwork of Metamorphic Petrography in Valpelline, Valle d'Aosta, Italy
06/2014	Fieldwork of Geology of the Quaternary in Tarvisio, Friuli-Venezia Giulia, Italy
06/2013	Fieldwork of the North Volcanic Rift, Husavík, Iceland
03/2013	Fieldwork of Petrography in Valsesia ancient volcano, Piemonte, Italy

Fellowships, awards and scholarships

05/2016 - 06/2016	EPSSI (Earth, Planetary, and Space Sciences Institute) scholarship of Michigan Technological University for Stromboli volcano field work - \$ 1.500
05/2015 - 05/2016	INVOGE (International Geological Masters in Volcanology and Geotechniques) scholarship supported by University of Milano-Bicocca, Italy - € 5.240
04/2013 - 04/2016	"CASSA RURALE PINETANA FORNACE E SEREGNANO" bank scholarship for merit distinction in High school and University studies - € 2.550
10/2011 - 10/2016	"BANDO 5B" scholarship supported by Opera universitaria and financed by Provincia autonoma di Trento (Autonomous Province of Trento), Italy, for merit distinction in High school and University studies - € 24.840

Languages

Italian	Native or bilingual proficiency
English	Professional working proficiency. TOEFL iBT: 92 (06/2017)
German	Elementary proficiency. A2, GOETHE INSTITUT (07/2006)

Computer Skills

Operating System	Microsoft Windows, Linux, MacOS
Programming	MATLAB, Python, Bash
General	FEniCS, Firedrake, PyLith, GMT, ArcGis, QGis, Surf96, Global mapper, Rocscience Slide, Surfer®, Sounder, Visual Surt, L ^A T _E X, Microsoft Office

Leadership, outreach and additional information

06/2019 - present	American Texan driving license (type C)
05/2017 - present	Ski-lift head service Italian license (type S1)
08/2016 - present	Student member of AGU (American Geophysical Union)

- 04/2015 1st selected candidate for INVOGE (International Geological Masters in Volcanology and Geotechniques) Program
- 09/2010 - present Italian driving license (type B)

Publications

1. **Puel, S.** (2017), "COMPARISON OF AMBIENT NOISE METHODS TO FIND SURFACE - WAVE DISPERSION CURVES AT PACAYA VOLCANO, GUATEMALA", *Open Access Master's Thesis*, Michigan Technological University, 2017; <http://digitalcommons.mtu.edu/etdr/377> (117 pages)
2. **Puel, S.**, Lanza, F., Medici, E.F., Waite, G.P. (2016), "Spectral Variations in Volcanic Jet Noise: the Example of Stromboli Volcano, Italy", *AGU 2016 Fall Meeting* (abstract, poster presentation #S11C-2459); <http://adsabs.harvard.edu/abs/2016AGUFM.S11C2459P>
3. Ichimura, T., Fujita, K., Yamaguchi, T., Naruse, A., Wells J.C., Zimmer C.J., Tjerk, P.S., Hori, T., **Puel, S.**, Becker, T.W., Hori, M., Ueda, N. (2019), "416-PFLOPS Fast Scalable Implicit Solver on Low-Ordered Unstructured Finite Elements Accelerated by 1.10-ExaFLOPS Kernel with Reformulated AI-Like Algorithm: For Equation-Based Earthquake Modeling", *SC19* (abstract, poster #64); https://sc19.supercomputing.org/proceedings/tech_poster/tech_poster_pages/rpost148.html
4. Dorsett, J., Johnson, K.M., **Puel, S.**, Becker, T.W. (2019, 08), "Postseismic Deformation and Stress Evolution Following the 2019 M 7.1 and M 6.4 Ridgecrest Earthquakes", *2019 SCEC Annual Meeting* (abstract, poster #236); <https://www.scec.org/publication/9789>
5. Dorsett, J., Johnson, K.M., **Puel, S.**, Becker, T.W. (2019), "Postseismic Deformation and Stress Evolution Following the 2019 M 7.1 and M 6.4 Ridgecrest Earthquakes", *AGU 2019 Fall Meeting* (abstract, poster #S31G-0500); <https://agu.confex.com/agu/fm19/meetingapp.cgi/Paper/593101>

Last update on January 15, 2020