

Hugo S. SÁNCHEZ REYES

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WORK EXPERIENCE

- Nov. 2019 - Currently** **Postdoctoral researcher at Université Grenoble Alpes, ISTerre**
MONIFAUULT ERC Project: *Development and application of novel techniques to analyze and classify seismological data to study the evolution of the stress field in real active faults.*
- Oct. 2015 - Oct. 2019** **PhD. Student at Université Grenoble Alpes, ISTerre**
Thesis: *Progressive linear kinematic source inversion method and its perspectives towards the uncertainty quantification*
- Mar. 2015 - Jun. 2015** **Research Internship at Université Joseph Fourier, ISTerre**
Project: ANR S4 Subduction: *standard and slow seismology*
- Feb. 2014 - Jun. 2014** **Internship at Université Joseph Fourier, ISTerre**
Project: *1D Eikonal equation by a DG Finite Element Method*
- Oct. 2012 - Aug. 2013** **Geophysical Specialist in Exploration at COMESA S. A.**
Tasks: *Development of didactic software for PSTM seismic data.*
- Other activities:**
- Since Jan. 2019** Reviewer for Journal of Geophysical Research and Geophysical Journal International

EDUCATION AND TRAINING

- Oct. 2019** **PhD. in Earth Sciences, Solid Earth**
Thesis: *Progressive linear kinematic source inversion method and its perspectives towards the uncertainty quantification* | Advisors: Prof. J. VIRIEUX and Dr. L. MÉTIVIER
Université Grenoble Alpes, France
- Feb. 2015** **MSc. in Engineering Seismology**
Thesis: *Eikonal Equation by a DG-FEM* | Advisor: Prof. Jean VIRIEUX
Université Joseph Fourier, France | Istituto Universitario di Studi Superiori di Pavia, Italy
- Apr. 2013** **BSc. in Geophysical Engineering**
Thesis: *Seismic source modeling of Jalisco earthquake ($M_w=8.0$), 1995, from the inversion of seismic and static records* | Advisor: PhD. Vala HJORLEIFSDOTTIR
National Autonomous University of Mexico, UNAM, Mexico | **Graduated with honors**
- Other trainings:**
- Mar. 2013** Guralp-Ampère Latin American Instrumentation Workshop
Basic use and setup of Guralp and FreeWave instruments
Ampère Instrumentation and Telemetry, Mexico
- Jul. 2011** Course of field seismic instrumentation
Use of seismic sensors and digitizers
Institute of Geophysics, National Autonomous University of Mexico, Mexico

SCIENTIFIC PUBLICATIONS

- [1] **Sánchez-Reyes, H. S.**, Tago, J., Mtivier, L., Cruz-Atienza, V. M. and Virieux, J., 2018. An evolutive linear kinematic source inversion. *JGR Solid Earth*, 123, DOI: 10.1029/2017JB015388. [\[Link\]](#)
- [2] Hjorleifsdottir, V., **Sánchez-Reyes, H. S.**, Ruiz Angulo, A., Ramirez-Herrera, M. T., Castillo-Aja, R., Singh, S. K. and Ji, C., 2018. Was the October 9th 1995 M_w 8 Jalisco, Mexico earthquake a near trench event? *JGR Solid Earth*, DOI: 10.1029/2017JB014899. [\[Link\]](#)
- [3] Jara, J., **Sánchez-Reyes, H. S.**, Socquet, A., Cotton, F., Virieux, J., Maksymowicz et al., 2018. Kinematic Study of Iquique 2014 M_w 8.1 earthquake: understanding the segmentation of the seismogenic zone. *Earth and Planetary Sciences* DOI: 10.1016/j.epsl.2018.09.025. [\[Link\]](#)

Submitted:

- [1] **Sánchez-Reyes, H. S.**, Essing, D., Beaucé, E. and Poli, P., 2020. Detailed study of the initiation process of a M_w 4.4 normal fault earthquake in the middle lower crust in the Central Apennines. *Gephys. Res. Lett.*, DOI: XXX-XXX-XXX.

LANGUAGES & OTHER SKILLS

FRENCH:	Fluent B2	Basic:	SeismicUnix, QGIS, C++
ENGLISH:	Fluent IELTS 7.0	Intermediate:	Template matching, Python, OpenQuake, SAC, MPI, HypoDD, SEISAN
RUSSIAN:	Basic A2	Advanced:	Fortran, OpenMP, MatLab, GMT
SPANISH:	Mothertongue	Leadership:	2011-2012 President of UNAM's SEG Student Chapter Organizer of research reading group: Link: "Earthquake Precursors"

SCHOLARSHIPS-AWARDS & CONFERENCES

2018	AGU Outstanding Student Presentation Award	2020	EGU General Assembly (online)
2018	Mechanics of Earthquake Faulting Workshop	2018	AGU Fall Meeting (Oral)
2015	CNRS Recrutement étudiant handicapé	2017	IAG-IASPEI Kobe Meeting (Poster)
2013	Erasmus Mundus Scholarship MEEES	2016	AGU Fall Meeting (Poster)
2012	ExxonMobil Research Scholarship	2015	UGM Annual Meeting (Oral)
2011	Chevron/SEG Student Leadership Travel Grant	2012	UGM Annual Meeting (Oral)
		Posters and presentations: [ResearchGate]	

SCIENTIFIC INTERESTS

Inverse problems, Bayesian inference, seismic sources, earthquake initiation process, signal processing and programming.

MOBILITY

SEPT. 2015 - MARS. 2016	6 Months PhD. researcher internship at the National Autonomous University of Mexico, Mexico
SEPT. 2014 - MARS. 2015	6 Months MSc. program at the Istituto Universitario di Studi Superiori di Pavia, Italy

HOBBIES AND OTHER ACTIVITIES

Scientific divulgation, disability awareness podcasting, playing guitar and saxophone, ice skating, languages, literature, writing science-fiction tales.