

# Hugo S. SÁNCHEZ REYES

BIRTH: 4 July 1989  
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## WORK EXPERIENCE

**Oct. 2015 - Currently** **PhD. Student at Université Grenoble Alpes, ISTerre**  
Thesis: *An Adjoint-State Method for 3D Seismic Source Inversion*

**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.*

## EDUCATION AND TRAINING

**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., Ramrez-Herrera, M. T., Castillo-Aja, R., Singh, S. K. and Ji, C., 2018. Was the October 9<sup>th</sup> 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. [\[Link\]](#)

## LANGUAGES & OTHER SKILLS

FRENCH:	Fluent B2	Basic:	ArcGIS, SEISAN
ENGLISH:	Fluent IELTS 7.0	Intermediate:	C++, Python, QGIS, OpenQuake, SAC, MPI, Perl, SeismicUnix
RUSSIAN:	Basic A2	Advanced:	Fortran, OpenMP, MatLab, GMT, L <sup>A</sup> T <sub>E</sub> X
SPANISH:	Mothertongue	Leadership:	2011-2012 President of UNAM's SEG Student Chapter

## SCHOLARSHIPS & CONFERENCES

2015	CNRS Recrutement étudiant handicapé	2018	AGU Fall Meeting (Oral Participation)
2013	Erasmus Mundus MEEES	2017	IAG-IASPEI Kobe Meeting (Poster Participation)
2012	ExxonMobil Research Scholarship	2016	AGU Fall Meeting (Poster Participation)
2011	Chevron/SEG SLS Travel Grant	2015	UGM Annual Meeting (Oral Participation)
2018	Mechanics of Earthquake Faulting Workshop	2012	UGM Annual Meeting (Oral Participation)
			Posters and presentations: <a href="#">[GitHub link]</a>

## INTERESTS AND ACTIVITIES

Inverse problems, bayesian inference, programming, languages, saxophone, writing science-fiction