

# Hugo S. SÁNCHEZ REYES

BIRTH: 4 July 1989  
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🌐 <http://hugosanrocks.github.io/> 🌐 <https://github.com/hugosanrocks>



## WORK EXPERIENCE

- Oct. 2015 - Currently** **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.*

## 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., Ramirez-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, SeismicUnix
ENGLISH: Fluent IELTS 7.0	Intermediate: C++, Python, QGIS, OpenQuake, SAC, MPI, Perl, SEISAN
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 Organizer of " <a href="#">Earthquake Precursors Reading Group</a> "

## SCHOLARSHIPS-AWARDS & CONFERENCES

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

## INTERESTS AND ACTIVITIES

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