

Dr. VICTOR MANUEL CRUZ ATIENZA

Nationality: Mexican, French and Spanish

Place of birth: Mexico City

Date of birth: September 18, 1974

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CURRICULUM VITAE IN EXTENSO

January 2023

CURRENT POSITION

Senior Researcher, Department of Seismology, Institute of Geophysics, National Autonomous University of Mexico.

DISTINCTIONS AND AWARDS

- 2021 Senior Researcher Class C – Highest appointment, National Autonomous University of Mexico.
- 2019 Class 3 of the Mexican System of Researchers (SNI, highest distinction).
- 2017 Recognition by *Nature Magazine* as one of "**The 10 most relevant scientists in the world in 2017**".
<http://www.nature.com/immersive/d41586-017-07763-y/index.html>
- 2017 Level D, Program of Performance for Full-Time Academic Staff (PRIDE), National Autonomous University of Mexico (highest distinction).
- 2011 Chair by the European Commission in the "*Centre for Post-Graduate Training and Research Engineering and Engineering Seismology*" (MEEES), Grenoble, Francia.
- 2006 Honorable Mention and Jury Congratulations, PhD dissertation.
- 2001 Honorable Mention, Master degree dissertation.
- 2000 Honorable Mention, Bachelor degree dissertation.
Gabino Barreda Medal, National Autonomous University of Mexico.
- 1997 Best Student Award of Geophysical Engineering, Mexican Association of Exploration Geophysicists (AMGE).

ACADEMIC QUALIFICATIONS

Academic Degrees

- 2006 PhD in Geophysics and Universe Sciences, UMR Géosciences Azur, University of Nice – Sophia Antipolis (UNSA), France.
Thesis: “*Dynamic rupture of non-planar faults in finite differences*”.
Advisor: Dr. Jean VIRIEUX.
Date of dissertation: May 5, 2006.
Distinctions: Honorable Mention with congratulations from the jury.
- 2001 Master of Science: Seismology, Institute of Geophysics, National Autonomous University of Mexico (UNAM), Mexico.
Thesis: “Quantitative waveforms analysis of the Popocatépetl volcano”.
Advisor: Dr. Javier PACHECO ALVARADO.
Date of dissertation: July 20, 2001.
Distinction: Honorable Mention.
- 2000 Geophysical Engineering, Faculty of Engineering, National Autonomous University of Mexico (UNAM), Mexico.
Thesis: “Global inversion with Genetic Algorithms and Simulated Annealing applied to receiver functions: crustal velocity models in Mexico”.
Advisor: Dr. José Luís RODRIGUEZ ZUÑIGA.
Date of dissertation: March 20, 2000.
Distinction: Gabino Barreda Medal for university merit and Honourable Mention awarded for the defence of the degree.

Postdoctoral Training

- 2007 Postdoctoral appointment, Department of Geological Sciences, San Diego State University (SDSU), USA.
Project: “Estimation of mechanical properties of the seismic source from seismograms, and massive simulation of earthquake scenarios with numerical models for the dynamic rupture with Finite Differences and Finite Volumes methods”.
Supervisors: Dr. Kim Bak OLSEN and Dr. Steven DAY.
- 2006 Postdoctoral appointment, National Centre for Scientific Research (CNRS), Sophia - Antipolis, France.
Project: “Propagation of seismic waves in complex media and kinematic simulation of seismic sources with Finite Differences in the Nice region, France”.
Supervisor: Dr. Stephane GAFFET.

PROFESSIONAL EXPERIENCE

Research Projects

2021 – present

Co-Principal Investigator of the project "Slow Aseismic Events (SSE) in the subduction zone of Mexico and La Venta-Chacalapa fault system as the constituent of the seismic cycle".

Funded by UNAM

Support Program for Research and Technological Innovation Projects (PAPIIT).

Target completion date: 2023.

2021 – present

Participant in the project "Systematized generation of displacement maps using differential Synthetic Aperture Radar Interferometry (InSAR) for geodetic observations of seismo-tectonic events in southern Mexico".

Funded by UNAM

Support Program for Research and Technological Innovation Projects (PAPIIT).

Target completion date: 2022.

2016 – 2022

Mexican Principal Investigator of the Japan-Mexico bilateral project "Hazard Assessment of Large Earthquakes and Tsunamis in the Mexican Pacific Coast for Disaster Mitigation".

Funded by the Japan International Cooperation Agency (JICA), the Japan Science and Technology Agency (JST) and the National Autonomous University of Mexico (UNAM).

SATREPS Program (Science and Technologic Research for Sustainable Development), Japan.

Completion date: May 2022.

2018 – 2021

Principal Investigator of the project "Estimation of Seismic and Tsunamigenic Hazard in the Seismic Gap of Guerrero for Disaster Prevention".

Funded by CONACyT.

Call: National Problems.

Completion date: December 2021.

2017 – 2019

Co-Principal Investigator of the project "Study of the seismic and tsunamigenic potential of the seismic gap of Guerrero".

Funded by UNAM

Support Program for Research and Technological Innovation Projects (PAPIIT).

2016 Principal Investigator of the project "Study of Seismic and Tsunami Hazard in the Seismic Gap of Guerrero".

Funded by CONACYT.

DADC Program.

2014 – 2016

Principal Investigator of the project "Location and Analysis of Tectonic Tremors in the Central-South Region of Mexico and Poroelastic Modeling of Associated Slow Earthquakes".

Funded by UNAM

Support Program for Research and Technological Innovation Projects (PAPIIT).

2012 – 2015

Principal Investigator of the project "Deterministic modeling of strong movements for large earthquakes in the central Himalayas and Central-Southern Mexico".

Cooperación bilateral México (CONACYT) –India (*Department of Geophysics, Kurukshetra University*).

2012 – 2015

Mexican Principal Investigator of the international project "*High Performance Computing for Geophysical Applications*" (HPC – GA).

Funded by the European Union.

Program: *Marie Curie Actions—International Research Staff Exchange Scheme (IRSES)*

Countries involved: France, Spain, Brazil and Mexico.

2012 – 2014

Participant in the project "*Subduction Standard & Slow Seismology (S4)*".

Main researcher: Dr. Jean Virieux

Funded by the *Agence National de la Recherche (ANR)* of France.

2009 – 2012

Principal Investigator of the project "Towards the integration of a regional velocity model for the numerical simulation of strong movements in the Valley of Mexico".

Funded by CONACyT.

Call: Basic Science.

2009 – 2011

Principal Investigator of the project "Inverse Modeling of the Dynamics of Mexican Earthquakes".

Funded by UNAM

Support Program for Research and Technological Innovation Projects (PAPIIT).

2008 – 2010

Participant in the project "Non-volcanic tremors in Mexico".

Main researcher: Dr. Vladimir Kostoglodov.

Funded by UNAM.

Support Program for Research and Technological Innovation Projects (PAPIIT).

2009 – 2011

Participant in the project “*New perspectives on seismic hazard in subduction zones: episodic tremors and slip, passive monitoring, tectonics and strong motion scenarios (G – Gap)*”.

Main researcher: Dr. Michel Campillo

Funded by the Agence National de la Recherche" (ANR) of France.

2006 – 2009

Participation in the project "TeraShake"

Funded by the *National Science Foundation* y The SCEC Community Modeling Environment (SCEC/CME).

Main researcher: Dr. Steven Day and Dr. Kim Bak Olsen.

Program: An Information Infrastructure for System-Level Earthquake Research.

Oceanographic Campaigns

2022 Co-Scientific Officer of the MGL2204 Campaign.

Project: “Quantifying incoming plate hydration and role of fluids on megathrust properties in and around the Guerrero Gap, offshore Mexico”.

Research vessel: Marcus G. Langseth, Lamont Doeherty Earth Observatory, Columbia University & National Science Foundation.

Dates: May 14 to July 1, 2022.

2022 Scientific Chief and Head of the GGAP-2022 campaign.

Project: “Network of underwater Geophysical Instruments on the continental margin of the Guerrero seismic gap, Operational Component of the SATREPS Project of Cooperation with Japan”.

Research vessel: El Puma, Coordination of Scientific Research, National Autonomous University of Mexico.

Dates: March 25 to April 5, 2022.

2019 Scientific Chief and Head of the GGAP-2019 campaign.

Project: “Red of underwater Geophysical Instruments in the continental margin of the seismic gap of Guerrero, Operational Component of the SATREPS Project of Cooperation with Japan”.

Research vessel: El Puma, Coordination of Scientific Research, National Autonomous University of Mexico.

Dates: November 11 to 23, 2019.

2018 Scientific Chief and head of the GGAP-2018-2 campaign.

Project: “Red of underwater Geophysical Instruments in the continental margin of the seismic gap of Guerrero, Operational Component of the SATREPS Project of Cooperation with Japan”.

Research vessel: El Puma, Coordination of Scientific Research, National Autonomous University of Mexico.

Dates: November 11 to 22, 2018.

Scientific Chief and head of the GGAP-2018-1 campaign.

Project: “Red of underwater Geophysical Instruments in the continental margin of the seismic gap of Guerrero, Operational Component of the SATREPS Project of Cooperation with Japan”.

Research vessel: El Puma, Coordination of Scientific Research, National Autonomous University of Mexico.

Dates: May 28 to June 9, 2018.

2017 Scientific Chief and participant in the oceanographic campaign GGAP-2017-2.

Project: “Installation of a Red of underwater Geophysical Instruments on the continental margin of the seismic gap of Guerrero, Operational Component of the SATREPS Project of Cooperation with Japan”.

Research vessel: El Puma, Coordination of Scientific Research, National Autonomous University of Mexico.

Dates: 9 to 22 November 2017.

Research Internships

2022 Visiting researcher at the *Disaster Prevention Research Institute* of Kyoto University, Japan, in collaboration with Dr. Yoshihiro ITO, September 5-9, 2022.

2020 Visiting researcher at the *Lamont-Doherty Earth Observatory* of Columbia University, USA, in collaboration with Dr. Anne B ÉCEL, on October 16, 2020.

2016 Visiting researcher at the *Disaster Prevention Research Institute* of Kyoto University, Japan, in collaboration with Dr. Yoshihiro ITO, from September 10 to 25, 2016.

Visiting researcher at the *School of Earth, Energy & Environmental Sciences*, Stanford University, USA, in collaboration with Dr. Zack SPICA and Prof. Greg BEROZA, from November 30 to December 2, 2016.

2015 Visiting researcher at the *Institut de Physique du Globe de Paris* (IPGP), France, in collaboration with Dr. Harsha BHAT, from June 29 to July 17, 2015.

2014 Invited researcher at the *Institut des Sciences de la Terre (ISTerre)*, France, in collaboration with Dr. E. CHALJUB and Prof. J. VIRIEUX, from June 8 to July 10, 2014.

Visiting researcher at the *Industrial University of Santander (UIS)*, Colombia. In collaboration with Dr. José D. SANABRIA, from November 17 to 23, 2014.

2013 Visiting researcher at the *Institut des Sciences de la Terre (ISTerre)* France, in collaboration with Dr. E. CHALJUB and Prof. J. VIRIEUX, from June 1 to July 1, 2013.

2012 Visiting researcher at the *Institut des Sciences de la Terre (ISTerre)*, France, in collaboration with Prof. J. VIRIEUX, Prof M. CMAPILLO and Dr. E. CHALJUB, from May 21 to August 18, 2012.

- 2011 Invited researcher at the *Ecole Normale Supérieure de Paris* (ENS) by Prof. Raúl MADARIAGA, from 14 to 31 October 2011.
- 2010 Visiting researcher at the *UMR Géoazur Sophia-Antipolis*, Nice, France, by Dr. Stéphane GAFFET, November 22-30, 2010.
- Visiting researcher at the *National Research Institute for Earth Science and Disaster Prevention* (NIED), Tsukuba, Japan, by Profs. Yoshimitsu OKADA and Eiichi FUKUYAMA, October 11-15, 2010.
- Guest researcher at the *Ecole Normale Supérieure de Paris* (ENS) by Prof. Raúl MADARIAGA, from July 2 – July 9, 2010.
- 2009 Visiting researcher at the *Laboratoire de Géophysique Interne et Tectonophysique* of the Joseph Fourier University, Grenoble, France by Profs. Jean VIRIEUX, Michel CAMPILLO, Michel BOUCHON and David AMITRANO. From July 1 to November 15, 2009.
- Visiting researcher at the *Ecole Normale Supérieure de Paris*, ENS by Prof. R. MADARIAGA from July 15 – August 15, 2009.
- 2008 Visiting researcher at the *Laboratoire de Géophysique Interne et Tectonophysique* of the Joseph Fourier University, Grenoble, France. by J. VIRIEUX, M. CAMPILLO and F. COTTON, from June 14 – July 4, 2008.
- 2007 Visiting researcher at the *Department of Geological Sciences*, San Diego State University (SDSU), California, USA, by Prof. K. OLSEN and Prof. S. DAY, December 3 – December 9, 2007.

Journal Refereeing

Seismological Research Letters
Since December 2019.

Nature Geoscience
Since September 2018.

Mexican Journal of Geological Sciences
Since September 2015.

Journal of Geophysical Research
Since April 2013.

Cambridge University Press, “Earth & Planetary Science”
Since September 2011.

Geophysical Research Letters
Since August 2010.

Geophysics
Since January 2010.

Bulletin of the Seismological Society of America
Since February 2008.

Geophysical Journal International
Since September 2006.

Editorial Boards

2020 – present

Permanent Editor in the [*Geophysical Journal International*](#), of the *Royal Astronomical Society of London* and the *Oxford University Press*.

Institutional Development and University Management

2019 – present

Member of the Earthquake Advisory Committee of the Mexico City Government.
Ministry of Education, Science, Technology and Innovation (SECTEI).
Since February 2018.

2018 – present

Member of the Opinion Commission of the College of Physical Geography.
Faculty of Philosophy and Letters.
National Autonomous University of Mexico.
Since February 2018.

2013 – 2017

Head of the Department of Seismology.
Institute of Geophysics.
National Autonomous University of Mexico.
August 2013 to March 2017.

2010 – 2012

Representative of the Department of Seismology in the Internal Council (board of directors).
Institute of Geophysics.
National Autonomous University of Mexico.



2009 Member of the scrutiny commission for the election of Representative Councillor of the Institute of Geophysics.
Technical Council for Scientific Research.
National Autonomous University of Mexico.

TRAINING OF HUMAN RESOURCES


Courses


- 2011 – to date (one course per year)
 Professor of the Postgraduate School of Earth Sciences.
 Institute of Geophysics, National Autonomous University of Mexico.
 Level: Master's and Doctorate.
 Course: "Advanced Seismology".
- 2011 European Commission Professor (*Erasmus Mundus Scholar Scholarship*) in the
 “Centre for Post – Graduate Training and Research Engineering and Engineering
 Seismology” (MEEES), Grenoble, Francia.
 Level: Master's and Doctorate
 Course: "Selected Topics in Seismology".
- 2010, 2011 and 2013
 Professor of the Postgraduate School in Earth Sciences.
 Institute of Geophysics, National Autonomous University of Mexico.
 Level: Master's and Doctorate.
 Course: “Introduction to Seismology”.
- 2008 – 2009
 Professor of the Faculty of Engineering.
 National Autonomous University of Mexico.
 Level: Bachelor's degree
 Course: "Complex Variable Applied to Geophysics".
- 2003 – 2004
 Assistant of Initial Training Program.
 University of Nice – Sophia Antipolis, France.
Licence and maitrise (equivalent to Bachelor's degree).
 Curso: “*Scientific programming language*”.


Supervised Theses


- 2021 PhD Thesis 
 Defended by: Carlos Villafuerte.
 Postgraduate School in Earth Sciences, UNAM.
 Institute of Geophysics, Institute of Geology, Institute of Geography and Institute
 of Marine Sciences and Limnology.
 Título de la tesis: “Slow Slip Events and Tectonic Tremor in the Mexican
 Subduction Zone: Implications for Seismic Hazard”.
 Date of defense: 23 June 20 21.
- 2018 Master's Thesis 
 Defended by: Aron Mirwald.
 Postgraduate School in Earth Sciences, UNAM.
 Institute of Geophysics, Institute of Geology, Institute of Geography and Institute
 of Marine Sciences and Limnology.
 Título de la tesis: “Dynamic Source Inversion of the 2017 Mw7.1 Puebla-Morelos
 Earthquake”.

Date of defense: September 17, 2018.


2017 Master's Thesis 
Defended by: Emmanuel Caballero Leyva.
Postgraduate School in Earth Sciences, UNAM.
Institute of Geophysics, Institute of Geology, Institute of Geography and Institute of Marine Sciences and Limnology.
Thesis title: "Inversion of the seismic moment tensor of tectonic tremors in the state of Guerrero".
Date of defense: June 12, 2017.


2016 Master's Thesis 
Defended by: Carlos Villafuerte Urbina
Postgraduate School in Earth Sciences (UNAM)
Institute of Geophysics, Institute of Geology, Institute of Geography and Institute of Marine Sciences and Limnology.
National Autonomous University of Mexico.
Thesis title: "Evolution of Pore Pressure Associated with Silent Earthquakes: Implications in the Generation of Tectonic Tremors in Guerrero, Mexico".
Date of defense: August 5, 2016.

2015 Bachelor Thesis 
Defended by: Emmanuel Caballero Leyva.
Faculty of Engineering, UNAM.
Thesis title: "Polarization of the Particle Motion of Tectonic Tremors and its Location in the State of Guerrero".
Date of defense: June 23, 2015.

Bachelor's Thesis 
Defended by: Graciela Rojo Limón.
School of Sciences, University of the Americas, Puebla.
Thesis title: "Study of the crustal structure in Guerrero, Mexico, through the inversion of receiver functions".
Date of defense: May 20, 2015.

2014 Bachelor Thesis
Defended by: Carlos David Villafuerte Urbina
Faculty of Engineering. UNAM
Thesis title: "Poroelastic modeling of silent earthquakes in Guerrero, Mexico".
Date of Defense: July 31, 2014

2012 PhD Thesis 
Defended by: Joshua Tago Pacheco
Postgraduate School in Earth Sciences, UNAM
Thesis title: "Computational modeling of visco-elasticity and dynamic rupture of earthquakes with 3D Discontinuous Galerkin".
Date of defense: November 30, 2012.

Master's Thesis 
Defended by: John Jairo Díaz

Postgraduate School in Earth Sciences, UNAM.
Thesis title: "Inversion of the dynamics of Mexican earthquakes".
Date of defense: June 22, 2012.

Bachelor's Thesis 📖

Defended by: Ana Rocher Maliachi.

Faculty of Engineering, UNAM.

Thesis title: "Integration and evaluation of a cortical velocity model for the modeling of strong movements in the central part of Mexico".

Date of defense: February 2, 2012.

Supervised Theses in Progress

PhD Thesis

Student: John Jairo Díaz

Postgraduate in Earth Sciences (UNAM)

Topic: "Evaluation of seismic hazard in Mexico City from dynamic models of seismic source".

PhD Thesis (suspended)

Student: Gabriel Reyes Alfaro

Postgraduate School in Earth Sciences (UNAM)

Topic: "Fine structure under the Colima Volcano by means of receiver functions".

Master's Thesis

Estudiante: Ana Rocher Maliachi

Postgraduate in Earth Sciences (UNAM)

Topic: "Seismicity rate analysis from template matching detections".

Postdoctoral Supervision

2013 – 2014









Dr. José David Sanabria Gómez, Institute of Geophysics (UNAM). Topic: "Modeling of the propagation of seismic waves in the Valley of Mexico" (currently Dean of the Faculty of Sciences of the Industrial University of Santander, Colombia).

Social Service Supervision











2013: Student Emmanuel Caballero Leyva, Faculty of Engineering (UNAM) Theme: "Polarization of the Tectonic Tremors Particle Movement" (concluded on June 14, 2013).











2009: Student Leticia Itzel Flores Sánchez, Faculty of Engineering (UNAM) Theme: "Implementation of free boundary conditions for the propagation of elastic waves in finite differences and analysis of the signals emitted by non-volcanic tremors" (concluded on February 24, 2010).







Articles published in peer-reviewed international journals

46. Dominguez L. A., T. Taira, V.M. Cruz-Atienza, A. Iglesias, C. Villafuerte, D. Legrand, X. Pérez-Campos and M. Raggi. Interplate slip rate variation between closely spaced earthquakes in southern Mexico: The 2012 Ometepec and 2018 Pinotepa Nacional thrust events. *Journal of Geophysical Research*, 127, doi: 10.1029/2022JB024292, 2022. 
45. Cruz-Atienza, V.M., J. Tago, C. Villafuerte et al. Short-term interaction between silent and devastating earthquakes in Mexico. *Nature Communications*, 12, 2171, <https://doi.org/10.1038/s41467-021-22326-6>, 2021. 
44. Plata-Martínez R., S. Ide, M. Shinohara, E. Garcia, N. Mizuno, L. A. Dominguez, T. Taira, Y. Yamashita, A. Toh, T. Yamada, J. Real, A. Husker, V. M. Cruz-Atienza and Y. Ito. Shallow slow earthquakes to decipher future catastrophic earthquakes in the Guerrero gap. *Nature Communications*, 12, 3876, <https://doi.org/10.1038/s41467-021-24210-9>, 2021. 
43. Tago, J., V. M. Cruz-Atienza, C. Villafuerte, T. Nishimura, V. Kostoglodov, J. Real and Y. Ito. Adjoint Slip Inversion under a Constrained Optimization Framework: Revisiting the 2006 Guerrero Slow Slip Event. *Geophysical Journal International*, 226, 2, <https://doi.org/10.1093/gji/ggab165>, 2021. 
42. Legrand D., A. Iglesias, S. K. Singh, V. M. Cruz-Atienza, C. Yoon, L. A. Dominguez, R. W Valenzuela, G. Suárez, O. Castro-Artola. The influence of fluids in the unusually high-rate seismicity in the Ometepec segment of the Mexican subduction zone. *Geophysical Journal International*, 226, 1, <https://doi.org/10.1093/gji/ggab106>, 2021. 
41. Singh, S. K., L. Quintanar, D. Arroyo, V. M. Cruz-Atienza, V. H. Espíndola, D. Bello-Segura and M. Odaz. Lessons from a Small Local Earthquake (Mw 3.2) which Produced the Highest Acceleration Ever Recorded in Mexico City. *Seismological Research Letters*, doi: 10.1785/0220200123, 2020. 
40. *Mirwald, A., V. M. Cruz-Atienza, J. Díaz-Mojica, A. Iglesias, S. K. Singh, C. Villafuerte and J. Tago. The September 19, 2017 (Mw7.1), intermediate-depth Mexican earthquake: a slow and energetically inefficient deadly shock. *Geophysical Research Letters*, 46, <https://doi.org/10.1029/2018GL080904>, 2019. 
39. Suárez G., M. A. Santoyo, V. Hjørleifsdóttir, A. Iglesias, C. Villafuerte and V. M. Cruz-Atienza. Large Scale Lithospheric Detachment of the Downgoing Cocos Plate: The 8 September 2017 Earthquake (Mw 8.2). *Earth and Planetary Science Letters*, 509, <https://doi.org/10.1016/j.epsl.2018.12.018>, 2019. 
38. Singh, S. K., E. Reinoso, D. Arroyo, M. Ordaz, V. M. Cruz-Atienza, X. Pérez-Campos, A. Iglesias and V. Hjørleifsdóttir. Deadly Intraslab Mexico Earthquake of

- 19 September 2017 (Mw7.1): Ground Motion and Damage Pattern in Mexico City. *Seismological Research Letters*, <https://doi.org/10.1785/0220180159>, 2018. 📄
37. Cruz-Atienza, V. M., C. D. Villafuerte and H. S. Bhat. Rapid tremor migration and pore-pressure waves in subduction zones. *Nature Communications*, doi:10.1038/s41467-018-05150-3, 2018. 📄
36. Cruz-Atienza, V. M. and Yoshihiro Ito et al. A Seismo-Geodetic Amphibious Network in the Guerrero Seismic Gap, Mexico. *Seismological Research Letters*, 89, 4, doi: 10.1785/0220170173, 2018. 📄
35. Sánchez-Reyes, H. S., J. Tago, L. Métivier, V. M. Cruz-Atienza and J. Virieux. An evolutive linear kinematic source inversion. *Journal of Geophysical Research*, 123, <https://doi.org/10.1029/2017JB015388> 2018. 📄
34. Harris, R.A., et al. A Suite of Exercises for Verifying Dynamic Earthquake Rupture Codes. *Seismological Research Letters*, <https://doi.org/10.1029/2017JB015388>, 2018. 📄
33. Maury J., S. Ide, V. M. Cruz-Atienza and V. Kostoglodov. Spatio-temporal variations in slow earthquakes along the Mexican subduction zone. *Journal of Geophysical Research*, doi:10.1002/2017JB014690, 2018. 📄
32. *Villafuerte, C. and V. M. Cruz-Atienza. Insights into the Causal Relationship between Slow Slip and Tectonic Tremor in Guerrero, Mexico. *Journal of Geophysical Research*, 122, doi:10.1002/2017JB014037, 2017. 📄
31. Cruz-Atienza, V. M., J. Tago, J. D. Sanabria-Gómez, E. Chaljub, V. Etienne, J. Virieux and L. Quintanar. Long Duration of Ground Motion in the Paradigmatic Valley of Mexico. *Nature - Scientific Reports*, 6, 38807; doi: 10.1038/srep38807, 2016. 📄
30. Maury, J., S. Ide, V. M. Cruz-Atienza, V. Kostoglodov, G. González-Molina and X. Pérez-Campos. Comparative study of non-volcanic tremor locations: characterization of slow earthquakes in Guerrero, Mexico. *Journal of Geophysical Research*, 121, doi:10.1002/2016JB013027, 2016. 📄
29. UNAM Seismology Group. Papanao, Mexico earthquake of 18 April 2014 (Mw7.2). *Geofísica Internacional*, 54-4, 363-386, 2015. 📄
28. Dominguez, L. A., B. Yildirim, A. L. Husker, E. Cochran, C. Christensen, V. M. Cruz-Atienza, J. F. Lawrence. The Red Atrapa Sismos (Quake Catcher 1 Network in Mexico): Assessing Performance during Large and Damaging Earthquakes. *Seismological Research Letters*, 86, doi: 10.1785/0220140171, 2015. 📄
27. Cruz-Atienza, V. M., A. Husker, D. Legrand, E. Caballero and V. Kostoglodov. Non-Volcanic Tremor Locations and Mechanisms in Guerrero, Mexico, from Energy-based and Particle-Motion Polarization Analysis. *Journal of Geophysical Research*, 120, doi: 10.1002/2014JB011389, 2015. 📄

26. +Spica, Z., V. M. Cruz-Atienza, G. Reyes-Alfaro, D. Legrand and A. Iglesias. Crustal Imaging of Western-Michoacan and the Jalisco Block, Mexico, from Ambient Seismic Noise. *Journal of Volcanology and Geothermal Research*, 289, 193-201, doi: 10.1016/j.jvolgeores.2014.11.005, 2014. 
25. +Maufroy, E., V. M. Cruz-Atienza, F. Cotton and S. Gaffet. Frequency-scaled curvature as a proxy for topographic site-effect amplification and ground-motion variability. *Bulletin of the Seismological Society of America*, 105, doi: 10.1785/0120140089, 2014. 
24. *Díaz-Mojica, J., V. M. Cruz-Atienza, R. Madariaga, S. K. Singh, J. Tago and A. Iglesias. Dynamic Source Inversion of the M6.5 Intermediate-Depth Zumpango Earthquake in central Mexico: a Parallel Genetic Algorithm. *Journal of Geophysical Research*, 119, 7768-7785, doi: 10.1002/2013JB010854, 2014. 
23. Singh, S.K., X. Pérez-Campos, V.H. Espíndola, V. M. Cruz-Atienza, and A. Iglesias. Intraslab Earthquake of 16 June 2013 (Mw5.9), One of the Closest Such Events to Mexico City. *Seismological Research Letters*, Vol. 85, No. 2, doi: 10.1785/0220130179, 2014. 
22. Rivet, D., M. Campillo, M. Radiguet, D. Zigone, V. M. Cruz-Atienza, N. M. Shapiro, V. Kostoglodov, N. Cotte, G. Cougoulat, A. Walpersdorf and E. Daub. Seismic velocity changes, strain rate and non-volcanic tremors during the 2009-2010 slow slip event in Guerrero, Mexico. *Geophysical Journal International*, Vol. 195, No. 2, doi:10.1093/gji/ggt374, 2013. 
21. Pérez-Campos, X., D. Melgar, S. K. Singh, Víctor M. Cruz-Atienza, A. Iglesias, V. Hjörleifsdóttir. Rapid estimation of fault parameters for tsunami warning along the Mexican subduction zone: A scenario earthquake in the Guerrero seismic gap. *Seismol. Res. Lett.*, Vol. 84, No. 3, doi: 10.1785/0220120156, 2013. 
20. UNAM Seismology Group. Ometepec-Pinotepa Nacional, Mexico Earthquake of 20 March 2012 (Mw7.5): A Preliminary Report. *Geofísica Internacional*. Vol 52, No. 2, p.p. 173-196, 2013. 
19. *Tago, Josué, Víctor M. Cruz-Atienza, Jean Virieux, Vincent Etienne and Francisco J. Sánchez-Sesma. 3D hp-Adaptive Discontinuous Galerkin Method for Modeling Earthquake Dynamics. *Journal of Geophysical Research*, Vol. 117, B09312, doi:10.1029/2012JB009313, 2012. 
18. +Maufroy E., Víctor M. Cruz-Atienza and S. Gaffet. A robust method for assessing 3D topographic site effects: A case study at the LSBB Underground Laboratory, France. *Earthquake Spectra*, Vol. 28, No. 3, doi:10.1193/1.4000050, 2012. 
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15. Roten D., K. B. Olsen, J. C. Pechmann, Víctor M. Cruz-Atienza and H. Magistrale. 3-D ground motion estimates for M7 earthquake scenarios on the Wasatch fault, Utah, using dynamic source descriptions, Part I: Long-period (0-1 Hz) results. *Bull. Seismol. Soc. Am.* 101-5, doi:10.1785/0120110031. 2011. 
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12. Cruz-Atienza Víctor M. and K. B. Olsen. Supershear mach-waves expose the fault breakdown slip. Special issue on 'Supershear Earthquakes', *Tectonophysics*, Elsevier, 493, 285–296, ed. S. Das and M. Bouchon., doi:10.1016/j.tecto.2010.05.012, 2010. 
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7. Cruz-Atienza Víctor M., J. Virieux & H. Aochi. 3D Finite-Difference dynamic-rupture modelling along non-planar faults. *Geophysics*, 72, doi: 10.1190/1.2766756, 2007. 

6. Benjemaa M., N. Glinsky, Cruz-Atienza Víctor M., J. Virieux & S. Piperno. Dynamic non-planar crack rupture by a finite-volume method. *Geophysical Journal International*, doi: 10.1111/j.1365-246X.2006.03500.x, 2007. 
5. Cruz-Atienza Víctor M. & J. Virieux. Dynamic rupture simulation of nonplanar faults with a finite difference approach. *Geophysical Journal International*, 158, 939-954, 2004. 
4. Cruz-Atienza Víctor M., J.F. Pacheco, S.K. Singh, N.M. Shapiro, C. Valdés & A. Iglesias. Size of Popocatepetl volcano explosions (1997-2001) from waveform inversion. *Geophysical Research Letters*, 28, 4027-4030, 2001. 
3. Hernandez, B., N.M. Shapiro, S.K. Singh, J.F. Pacheco, F. Cotton, M. Campillo, A. Iglesias, Víctor M. Cruz-Atienza, J.M. Gómez & L. Alcántara. Rupture History of September 30, 1999 Intraplate Earthquake of Oaxaca, Mexico (Mw=7.5) from Inversion of Strong-Motion Data. *Geophysical Research Letters*, 28, 363-366, 2001. 
2. Iglesias A., Víctor M. Cruz-Atienza, N.M. Shapiro, S.K. Singh & J.F. Pacheco. Crustal structure of south-central Mexico estimated from the inversion of surface waves dispersion curves using genetic and simulated annealing algorithms. *Geofísica Internacional*, 40, 181-190, 2001. 
1. Shapiro N.M., S.K. Singh, A. Iglesias-Mendoza, Víctor M. Cruz-Atienza & J.F. Pacheco. Evidence of low Q value below Popocatepetl volcano, and its implication to seismic hazard in Mexico City. *Geophysical Research Letters*, 27, 2753-2756, 2000. 


Articles under review (indexed scientific journals)







2. *Villafuerte, C., V. M. Cruz-Atienza, J. Tago, D. Solano-Rojas, R. Garza-Girón, S. I. Franco, L. A. Dominguez and V. Kostoglodov. Slow slip events and megathrust coupling changes reveal the earthquake potential before the 2020 Mw 7.4 Huatulco, Mexico event. Under Review in *Earth and Planetary Science Letters* (also posted on Earth and Space Science Open Archive, <https://doi.org/10.1002/essoar.10504796.4>), November 2020.

* The first author was/is a student under the direction of Víctor M. Cruz Atienza.

+ The first author was/is a student under the close supervision of Víctor M. Cruz Atienza.

Articles published in peer-reviewed conference proceedings

7. Maufroy, E., P. Lacroix, E. Chaljub, C. Sira, G. Grelle, L. Bonito, M. Causse, V. M. Cruz-Atienza, F. Hollender, F. Cotton and P.-Y. Bard. Towards Rapid Prediction of Topographic Amplification at Small Scales: Contribution of the FSC Proxy and Pleiades Terrain Models for the 2016 Amatrice Earthquake (Italy, Mw 6.0). 16th European Conference on Earthquake Engineering, Thessaloniki, Greece, 2018. 

6. Sánchez-Sesma F. J., M. Rodríguez, U. Iturrarán-Viveros, A. Rodríguez-Castellanos, M. Suárez, V.M. Cruz-Atienza and D. Rivet. Estimation of site effects using environmental vibration. XVII Congreso Nacional de Ingeniería Sísmica, 11-14 November, Puebla, Mexico, 2009. 
5. Maufroy E., V. M. Cruz-Atienza, S. Operto, O. Sardou, G. Sénéchal, M. Dietrich, and S. Gaffet. Modelisation of Topographic site effect 3D at the Low Noise Underground Laboratory (LSBB), Rustrel, France. 14e World Conference on Earthquake Engineering, 12-17 October, Beijing, China, 2008. 
4. Dalguer L.A., S.M. Day, K. Olsen and V. M. Cruz-Atienza. Rupture models and ground motion for Shakeout and other southern San Andreas fault scenarios. 14e World Conference on Earthquake Engineering, 12-17 October, Beijing, China, 2008. 
3. Mellors R, V. M. Cruz-Atienza, A. Aulia and Z. Kalmetyeva. Modeling the 2006 Kochkor, Kyrgyzstan earthquake and waverform propagation in the northern Tien Shan, Fourth International Symposium "Geodynamics of Intracontinental Orogens and Geoecological Problems", Bishkek, Kyrgyzstan, 15-23 June, 2008. 
2. Cruz-Atienza V. M., J. Virieux, Carine Khors-Sansornny, O. Sardou, S. Gaffet and M. Vallée, Quantitative estimation of PGA on the Côte d'Azur. 7th National Conference, French Association of Earthquake Engineering (AFPS), Ecole Centrale Paris, France, 2007. 
1. Cruz-Atienza V. M., J. Virieux & H. Aochi, Modeling dynamic fracture by a finite difference method for non-planar faults. 7th National Conference, French Association of Earthquake Engineering (AFPS), Ecole Centrale Paris, France, 2007. 

CITATIONS

2000 – Upto September 8, 2021

Reported by the Web of Science and Scopus.

Total citations: 1,315

Class A: 841

Class B: 337

Others: 137

H-index: 21 (Scopus)

Reported by Google Scholar.

Total citations: 2,081

H-index: 25

i10-Index: 40

PRESENTATIONS

Seminars and Lectures

- 2022 “Effective Mitigation of Earthquake and Tsunami Disasters: An Interdisciplinary Strategy”, Conference, Civil Protection of the State of Guerrero, Acapulco de Juárez, Mexico, August 5, 2022.
- 2021 [*“Interaction between Slow and Devastating Earthquakes in Mexico: The Extraordinary Case of the Seismic Sequence of 2017-2019”*](#). Institutional seminar, cycle "Cuéntame un Nature", Institute of Geophysics, UNAM. November 23, 2021.
- “Some Observations Prior to the Devastating Seismic Sequence of 2017-2018 in Mexico”*, Seminar "Free Seismations", Institute of Geophysics, UNAM. 28 October 20 21.
- [*“Seismic response in the Valley of Mexico: a physical perspective from recent models and observations”*](#). Webinar for the Mexican Mathematical Society. Joint Colloquium on Applied Mathematics. Mexico, May 26, 2021.
- 2020 [*“How Stable is Unstable? Chatting between Silent and Devastating Earthquakes”*](#). Webinar en el Lamont-Doherty Earth Observatory, Columbia University, New York, USA, October 16, 2020.
- [*“Short-Term Interaction between Silent and Devastating Earthquakes, and the Role of Interplate Velocity Changes in the Mexican Megathrust”*](#). Webinar Internacional, Subduction Zones 4D – National Science Foundation Initiative, October 9, 2020.
- 2019 *“Short-term Interactions between Silent and Devastating Earthquakes in Mexico”*, SZ4D – National Science Foundation, Megathrust Modeling Initiative, Oregon University, USA, October 7, 2019.
- “Evaluation of the Danger Associated with Large Earthquakes and Tsunamis in Guerrero for Risk Mitigation”*, event "The day of Geophysics", Faculty of Engineering, UNAM, Mexico, March 1, 2019 (plenary conference).
- 2018 *“Insights into the physics of the September 19th, 2017 (Mw7.1) Earthquake: from the source to the damaging ground motion in Mexico City”*, Seminar, Institute of Geophysics, UNAM, Mexico, February 13, 2018.
- “Rapid Tremor Migration and Pore Pressure Waves in Subduction Zones”* Cycle of seminars of Mathematical and Computational Modeling, Institute of Geophysics, UNAM, Mexico, March 25, 2018.
- “A Look at the Physics of the Earthquake 19-S-2017: From the Seismic Source, to the Devastating Strong Movements in Mexico City”*, Keynote Lecture, Faculty of Engineering, UNAM, Mexico, March 2, 2018.

- 2017 *"The M7.1 Earthquake of 2017 in Mexico City: A Model of the Observed Seismic Response"*, Seminar "Sandoval Vallarta", Institute of Physics, UNAM, September 27, 2017.
- "What happened on September 19, 2017 in Mexico and where should we move to avoid new disasters?"*, Seminar, Center for Genomic Sciences, UNAM, Mexico, December 5, 2017.
- "What happened on September 19, 2017 in Mexico and where should we move to avoid new disasters?"*, Universidad Iberoamericana, Mexico, November 29, 2017.
- 2016 *"Seismic Hazard and Long Duration of Ground Motion in the Valley of Mexico"*, Seminario, Department of Geophysics, Stanford University, USA, December 1, 2016.
- "Seismic Danger and Long Duration of Soil Movement in the Valley of Mexico"*, XXVIII National Meeting of Geotechnical Engineering in Mérida, Yucatán, Conferencia Magistral, November 24, 2016.
- 2015 *"Tectonic Tremor Modulation by Intraslab Fluid Diffusion During Silent Earthquakes in Guerrero, Mexico"*, Seminario, Institut de Physique du Globe de Paris, France, July 2 2015.
- 2014 *"Physics of Intermediate-Depth Earthquakes. Dynamic Source Inversion of an Intraslab Rupture"*, Seminario, Instituto Colombiano del Petróleo, Bucaramanga, Colombia, November 20, 2014.
- 2013 *"Toward physics-based earthquake modelling for hazard assessment"* Cycle of seminars of Mathematical and Computational Modeling, Seminar, Institute of Geophysics, UNAM, Mexico, April 5, 2013.
- 2012 *"Causal relationships between silent earthquakes and tectonic tremors in central Mexico"*, Seminario, Bureau de Recherches Géologiques et Minières (BRGM), Orléans, France, July 19, 2012.
- "DGCrack: a 3D hp-Adaptive Discontinuous Galerkin Method for Modeling Earthquake Dynamics"*, Seminario, Bureau de Recherches Géologiques et Minières (BRGM), Orléans, France, July 18, 2012.
- "Causal relationships between silent earthquakes and tectonic tremors in central Mexico"*, Seminario, Institut des Sciences de la Terre (ISTerre), Grenoble, France. July 5, 2012.
- "Dynamic Source Inversion of Mexican Subduction Earthquakes: a New Parallel Genetic Algorithm"*, Seminario, Institut des Sciences de la Terre (ISTerre), Grenoble, France. June 29, 2012.

- “*DGCrack: a 3D hp-Adaptive Discontinuous Galerkin Method for Modeling Earthquake Dynamics*”, Seminario, University of Southern California, Los Angeles, USA. February 6, 2012.
- “*Causal relationships between silent earthquakes and tectonic tremors in central Mexico*” Seminario, Institute of Geophysics and Planetary Physics – SCPRIPPS Institution of Oceanography, La Jolla, USA. June 30, 2012.
- 2011 “*Toward a Unified Theory of Silent Seismicity in Mexico*” Instituto de Ingeniería, UNAM, Mexico. Seminars “Sismociones Libres”, June 9, 2011.
- 2010 “*Constraining Dynamic Rupture Scenarios from Strong Motion Records: Subshear vs. Supershear Source Propagation*”, Seminar, UMR Géoazur, Sophia-Antipolis, France, November 25, 2010.
- “*Seismic Velocity Dependence on Crustal Effective Stresses and its Correlation with NVT Activity During the 2006 Slow Slip Event, Mexico*”, Seminar, National Research Institute for Earth Science and Disaster Prevention (NIED), Tsukuba, Japan, October 12, 2010.
- “*The shock waves produced by transonic ruptures reveal the friction law*”, Seminar, Laboratorio de Geología del Ecole Normale Supérieure de Paris, France, July 8, 2010.
- “*Conic Waves Reveal the Friction of Supersonic Earthquakes*”, Seminar, Faculty of Sciences, UNAM, Mexico, March 12, 2010.
- 2008 “*Numerical Modeling of the Dynamics of Seismic Ruptures*”, Seminar, Institute of Geophysics, UNAM. Cycle of Seminars of "Mathematical and Computational Modeling", November 28, 2008.
- “*Observing the Mechanics of an Earthquake*”, Seminar, Institute of Geophysics, UNAM. Cycle of Seminars of the Institute of Geophysics, September 5, 2008.
- “*Can we observe the critical slip of a seismic rupture from seismograms?*”, Seminario, Institut de Radioprotection et Sûreté Nucléaire (IRSN), Paris, France. Invitación por colaboración académica, June 30, 2008.
- “*Can we observe the critical slip of a seismic rupture from seismograms?*”, Seminario, Joseph Fourier University, Grenoble, France. Laboratory of Internal Geophysics and Tectonophysics (LGIT), June 26, 2008.
- “*Critical slip of the seismic source from actual seismograms?*”, Seminar, Institute of Engineering, UNAM, Mexico. Cycle "Free Seismations", June 6, 2008.
- 2007 “*A Finite Volume Approach for Modeling Rupture Dynamics*”, Seminar, University of Southern California, Los Angeles, California, USA, February 12, 2007.

“Dynamic rupture along non-planar faults and wave propagation effects on ground accelerations”, Seminar, San Diego State University, San Diego, California, USA. Seminar at “Department of Geological Sciences”, January 24, 2007.

Conference and Workshops Talks as First Author

1. Cruz-Atienza V. M., Josué Tago, Sara Franco, Jorge Real, Luis A. Domínguez, Ana Rocher, Carlos Villafuerte, Vladimir Kostoglodov, Yoshihiro Ito, Darío Solano, Ekaterina Kazachkina, Arturo Ronquillo, Anne Becel, Oral: Seismogenesis in the Guerrero Seismic Gap: A Slow and Fast Swaying Slip. American Geophysical Union, Chicago, USA, December 16, 2022 (invited).
2. Cruz-Atienza, V. M., Josué Tago, Sara Franco, Jorge Real, Luis A. Domínguez, Ana Rocher, Carlos Villafuerte, Vladimir Kostoglodov, Yoshihiro Ito, Darío Solano, Ekaterina Kazachkina, Arturo Ronquillo, Anne Becel. Seismogenesis in the Guerrero Seismic Gap: A Slow and Fast Swaying Slip. Annual Meeting of the Mexican Geophysical Union, Puerto Vallarta, Mexico, November 2, 2022.
3. Cruz-Atienza, V. M., Josué Tago, Sara Franco, Jorge Real, Carlos Villafuerte, Vladimir Kostoglodov, Yoshihiro Ito, Darío Solano, Ekaterina Kazachkina, Arturo Ronquillo, Anne Becel, Takuya Nishimura, Luis A. Domínguez and Ana Rocher. Seismogenesis in the Guerrero Seismic Gap: A Slow and Fast Swaying Slip. International Joint Workshop on Slow-to-Fast Earthquakes, Nara, Japan, September 14, 2022.
4. Cruz-Atienza, V. M. and Yoshihiro Ito. From earthquake physics to risk mitigation: an interdisciplinary research backbone in Guerrero, Mexico. Workshop on Joint Research for Tsunami Hazard, Kyoto University, Japan, September 5, 2022 (invited).
5. Cruz-Atienza, V. M., Josué Tago, Vladimir Kostoglodov, Sara I. Franco, Darío Solano, Carlos Villafuerte, Jorge Real and Ekaterina Kazachkina. Rapid and Slow Slip at the Plate Interface Imaged from GPS and InSAR data: the 2020 Huatulco and 2021 Acapulco earthquakes. Coloquio del 70th Anniversary of the “Servicio Mareográfico Nacional”, Instituto de Geofísica, UNAM, México, August 16, 2022.
6. Cruz-Atienza, V. M., C. Villafuerte, J. Tago, M. Wei, R. Garza-Girón, L.A. Dominguez, D. Solano, V. Kostoglodov, T. Nishimura, S.I. Franco, J. Real, M.A. Santoyo, Y. Ito and E. Kazachkina. Cascading interaction between silent and devastating earthquakes in Mexico. International Joint (online) Workshop on Slow Earthquakes 2021, "Science of Slow Earthquakes" Japan project, September 14, 2021.
7. Cruz-Atienza, V. M., C. Villafuerte, J. Tago, M. Wei, R. Garza-Girón, L.A. Dominguez, D. Solano, V. Kostoglodov, T. Nishimura, S.I. Franco, J. Real, M.A. Santoyo, Y. Ito and E. Kazachkina. Short-Term Interaction between Silent and Devastating Earthquakes. International (online) Workshop, Mexico-Japan, SATREPS-UNAM project. February 25, 2021.
8. Cruz-Atienza, V. M., J. Tago, C. Villafuerte, V. Kostoglodov, J. Real, R. , Y. Ito, M. Wei, S. I. Franco, T. Nishimura, Y. Kaneko, Y. Liu, B. Shibasaki, E. Kazachkina and M. A. Santoyo. Short-Term Crosstalk Between Silent and Devastating Earthquakes in Mexico. Annual Meeting of the Mexican Geophysical Union, Session SE12, Puerto Vallarta, Mexico, November, 2019.
9. Cruz-Atienza, V.M., C. Villafuerte, J. Tago and E. Chaljub. Insights on the physics of the September 19, 2017 (Mw7.1) damaging ground motion in the Valley of Mexico. Numerical Modeling of Earthquake Motions: Waves and Ruptures, Workshop, Smolenice Castle, Slovak Republic, June 30 – July 4, 2019.

10. Cruz-Atienza, V. M., Villafuerte, C., Bhat, H. Rapid Tremor Migration and Pore-Pressure Waves in Subduction Zones. Megathrust Modeling Workshop, SZ4D National Science Foundation Initiative, University of Oregon, 2019 (Invited).
11. Cruz-Atienza, V. M., J. Tago, C. Villafuerte, M. Wei, V. Kostoglodov, J. Real, Y. Ito, S. I. Franco, T. Nishimura, Y. Kaneko, Y. Liu, E. Kazachkina, M. A. Santoyo and B. Shibasaki. Short-term Interactions between Silent and Devastating Earthquakes in Mexico. Megathrust Modeling Workshop, SZ4D National Science Foundation Initiative, University of Oregon, 2019 (Invited).
12. Cruz-Atienza, V. M., Villafuerte, C., Bhat, H. Rapid Tremor Migration and Pore-Pressure Waves in Subduction Zones. Annual Meeting Seismological Society of America, Seattle, Washington, 2019.
13. Cruz-Atienza, V. M., Tago, J., Villafuerte, C., Kostoglodov, V., Real, J., Ito, Y., Franco, S. I., Nishimura, T., Kazachkina, E., Santoyo, M. A., Zavala-Hidalgo, J. Short-Term Bidirectional Interaction between Slow Slip Events and Three Devastating Earthquakes in Mexico. Annual Meeting Seismological Society of America, Seattle, Washington, 2019.
14. Cruz-Atienza V. M., Carlos Villafuerte, Josué Tago, Emmanuel Chaljub and José D. Sanabria-Gómez. A computational model of the seismic response in the Valley of Mexico after the damaging M7.1 earthquake of September 19, 2017. Annual Meeting Seismological Society of America, Miami, Florida, 2018.
15. Cruz-Atienza V. M., Josue Tago, Carlos David Villafuerte, Emmanuel Chaljub, José David Sanabria-Gómez, Oral: A physical model of the Mexico City seismic response after the damaging M7.1 earthquake of September 19, 2017. American Geophysical Union, New Orleans, USA, December, 2017.
16. Cruz-Atienza V. M., Josué Tago, José D. Sanabria, Emmanuel Chaljub and Jean Virieux. Long Duration of Ground Motion in the Paradigmatic Valley of Mexico. 5o Congreso Metropolitano de Modelado y Simulación Numérica, Facultad de Ciencias, UNAM, mayo de 2017. (Invited)
17. Cruz-Atienza V. M., Carlos Villafuerte, Harsha Bhat. Tectonic Tremor Migration Induced by Pore Pressure Solitons In Guerrero, Mexico. Mexican Geophysical Union (UGM), Puerto Vallarta, México, Geos, Vol. 36, 2016.
18. Cruz-Atienza V. M., Carlos Villafuerte, Harsha Bhat. Tectonic Tremor Modulation by Intraslab Fluid Diffusion During Slow Earthquakes. Joint Workshop on Slow Earthquakes – Earthquake Research Institute, Tokyo, 2016. (Invited)
19. Cruz-Atienza Víctor M., Carlos David Villafuerte, Harsha S Bhat, Guillermo Gonzalez, Allen L Husker, Vladimir Kostoglodov and Michel Campillo. Tectonic Tremor Modulation by Intraslab Fluid Diffusion During Slow Earthquakes. American Geophysical Union, Chapman Conference in Slow Slip Phenomena, Ixtapa, México, 2016.
20. Cruz-Atienza Víctor M., Carlos Villafuerte, Emmanuel Caballero, Vladimir Kostoglodov and Allen Husker. Tectonic Tremor Modulation by Intraslab Fluid Diffusion During Silent Earthquakes. International Workshop on Tectonic Tremors and Silent Seismicity. UNAM, Mexico City, February 25-27, 2015.
21. Cruz-Atienza, Victor M., Sanabria-Gomez, Jose D., Tago, Josue, Chaljub, Emmanuel, Virieux, jean. Surface-wave propagation modes in the Valley of Mexico: insights from realistic 3D earthquake simulations. Numerical Modeling of Earthquake Motion, Workshop, Smolenice Castle, Slovak Republic, July 5 – 9, 2015.
22. Cruz-Atienza, Víctor M., Carlos Villafuerte, Harsha Bhat, Guillermo González, Emmanuel Caballero, Allen Husker, Vladimir Kostoglodov and Michel Campillo.

- Tectonic Tremor Modulation by Intraslab Fluid Diffusion During Silent Earthquakes, Mexican Geophysical Union (UGM); *Geos*, Vol. 35, 2015.
23. Cruz-Atienza, Víctor M., Carlos Villafuerte, Emmanuel Caballero, Vladimir Kostoglodov and Allen Husker. Tectonic Tremor Modulation by Intraslab Fluid Diffusion During Silent Earthquakes. Annual Meeting Seismological Society of America, Pasadena, California, 2015.
 24. Cruz-Atienza, Víctor M., José D. Sanabria, Josué Tago, Emmanuel Chaljub and Jean Virieux Surface-Wave Propagation Modes in the Valley of Mexico: Insights from Realistic 3D Earthquake Simulations. Annual Meeting Seismological Society of America, Pasadena, California, 2015.
 25. Cruz-Atienza V. M., Allen Husker, Carlos Villafuerte, Emmanuel Caballero, Denis Legrand and Vladimir Kostoglodov. Nonvolcanic Tremors and Intraslab Fluid Migration in Guerrero, Mexico, During Slow Slip Transients, Abstract S53C-4522, American Geophysical Union, San Francisco, Calif., 15-19 Dec, 2014.
 26. Cruz-Atienza, V. M., Allen Husker, Carlos Villafuerte, Emmanuel Caballero, Denis Legrand and Vladimir Kostoglodov. Nonvolcanic Tremors and Intraslab Fluid Migration in Guerrero, Mexico, During Slow Slip Transients, Mexican Geophysical Union (UGM); *Geos*, Vol. 34, Resumen 0274, 2014.
 27. Cruz-Atienza, V. M., J. D. Sanabria, J. Tago, E. Chaljub and J. Virieux. Surface-Wave Propagation Modes in the Valley of Mexico: Insights from Realistic 3D Earthquake Simulations, 30th IUGG Conference on Mathematical Geophysics; Mérida, Yucatán, 2014 (invited).
 28. Cruz-Atienza, V. M., A. Husker, D. Legrand, V. Kostoglodov, Energy-based location and wavefield polarization analysis of tectonic tremors and LFEs in central Mexico, Mexican Geophysical Union (UGM); *Geos*, Vol. 33, No. 1, p. 252; 2013.
 29. Cruz-Atienza, V. M., A. Husker, D. Legrand, V. Kostoglodov, Energy-based Location and Wavefield Polarization Analysis of Tectonic Tremors in Central Mexico, American Geophysical Union, Meeting of the Americas, Cancun, S22A-05, 2013.
 30. Cruz-Atienza, V. M., J. D. Sanabria, J. Tago, V. Etienne, V. Hjörleifsdóttir, J. Virieux and E. Chaljub. Toward Physics-Based Earthquake Modelling for Hazard Assessment. HPC-GA Project Workshop, Bilbao, Spain. March, 2013.
 31. Cruz-Atienza Víctor M., Rivet Diane, Husker Allen, Campillo Michel, Legrand Denis y Kostoglodov Vladimir. Middle Crust Tectonic Tremor Driven by Silent-Earthquakes Water Pumping and Nonlinear Strain Causal Relationships In Silent Seismicity Of Central Mexico. Mexican Geophysical Union (UGM), *Geos*, Vol. 32, No. 1, p. 178, Noviembre, 2012.
 32. Cruz-Atienza Víctor M.; Diane N. Rivet; Vladimir Kostoglodov; Allen L. Husker; Denis Legrand; Michel Campillo. Toward a Unified Theory of Silent Seismicity in Central Mexico. American Geophysical Union, *Eos Trans. AGU*, 92, Fall Meet. Suppl., Abstract S23B-2264, 2011.
 33. Cruz-Atienza Víctor M., Rivet Diane, Kostoglodov Vladimir, Husker Allen, Legrand Denis y Campillo Michel. Causal Relationships In Silent Seismicity Of Central Mexico. Mexican Geophysical Union (UGM), *Geos*, Vol. 31, No. 1, p. 178, Noviembre, 2011.
 34. Cruz-Atienza Víctor M., Legrand Denis, Kostoglodov Vladimir y Husker Allen. A New Location Technique For Non Volcanic Tremors And Low Frequency Earthquakes. Mexican Geophysical Union (UGM), *Geos*, Vol. 31, No. 1, p. 180, Noviembre, 2011.

35. Cruz-Atienza Víctor M., Hjorleifsdottir Vala and Rocher Ana. Simulating an M8.2 in the Guerrero gap. Mexican Geophysical Union (UGM), Geos, Vol. 31, No. 1, p. 150, November, 2011.
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ORGANIZATION OF SCIENTIFIC MEETINGS

International Colloquia and Congresses

- 2021 Online Internacional Workshop “Hazard Assessment of Large Earthquakes and Tsunamis in the Mexican Pacific Coast for Disaster Mitigation”.
Conveners: Víctor M. Cruz-Atienza and Yoshihiro Ito.

- Participants: 35 scientists (researchers and students from Mexico and Japan).
Place: Zoom telematics platform.
Dates: February 11, 18 and 25, 2021.
- 2018 Internacional Workshop “Hazard Assessment of Large Earthquakes and Tsunamis in the Mexican Pacific Coast for Disaster Mitigation”.
Conveners: Víctor M. Cruz-Atienza and Yoshihiro Ito.
Participants: 42 scientists (researchers and students from Mexico and Japan).
Place: Seminar Unit, Dr. Ignacio Chávez, Botanical Garden, National Autonomous University of Mexico, Mexico City.
Dates: 5-6 November, 2018.
- 2017 Internacional Workshop “Hazard Assessment of Large Earthquakes and Tsunamis in the Mexican Pacific Coast for Disaster Mitigation”.
Conveners: Yoshihiro Ito and Víctor M. Cruz-Atienza.
Participants: 58 scientists (researchers and students from Mexico and Japan).
Place: Nara Kasugano International Forum, Nara, Japan.
Dates: 26-28 July, 2017.
- 2016 Congreso internacional “2016 Chapman Conference on the Slow Slip Phenomena” de la *American Geophysical Union*.
Conveners: Allen Husker, Heidi Houston y Yoshihiro Ito.
Scientific board: Michel Campillo, Víctor M. Cruz-Atienza, Satoshi Ide, Matt Ikari, Vladimir Kostoglodov, Susan Schwartz, David Shelly and Laura Wallace.
Participants: 141 scientists (researchers and international students).
Place: Ixtapa, Guerrero, Mexico.
Dates: 21-25 February, 2016.
- 2015 Internacional Workshop “Tectonic Tremor and Silent Seismicity”.
Conveners: Víctor M. Cruz-Atienza.
Participants: 45 scientists (researchers and students from Mexico, France, the United States, Japan and New Zealand).
Place: Seminar Unit, Dr. Ignacio Chávez, Botanical Garden, National Autonomous University of Mexico, Mexico City.
Dates: 25-27 February, 2015.

Special Sessions

- 2022 Spetial Session “Comparative Investigations of Slow-to-Fast Earthquakes: Observations, Experiments, and Numerical Modeling”.
Conveners: Yoshihiro Ito, Víctor M. Cruz-Atienza, Laure Wallace and Matt Ikari.
Congress: Annual Meeting of the *American Geophysical Union*.
Place: Chicago, United States.
Dates: 12 – 16 December, 2022.
- 2019 Spetial Session “Disaster Prevention for Megathrust Earthquakes and Tsunamis in Mexico”.
Conveners: Yoshihiro Ito and Víctor M. Cruz-Atienza.

Congress: Annual Meeting of the Mexican Geophysical Union.
Location: Puerto Vallarta, Mexico.
Dates: October 27 – November 1, 2019.






- 2018 Spetial Session “The recent earthquakes that shocked Mexico in September 2017”.
Conveners: Arturo Iglesias, Vala Hjörleifsdóttir, Víctor M. Cruz-Atienza, and Roberto Ortega-Ruiz.
Congress: Annual Meeting of the *Seismological Society of America*.
Place: Miami, United States.
Dates: May 14 – 17, 2018.
- 2016 Spetial Session “Assessment of Large Earthquakes and Tsunamis for Disaster Prevention”.
Conveners: Víctor M. Cruz-Atienza and Yoshihiro Ito.
Congress: Annual Meeting of the Mexican Geophysical Union.
Place: Puerto Vallarta, Mexico.
Dates: October 30 – November 4, 2016.
- 2015 Spetial Session “ALERT G-Gap: Assessment of Large Earthquakes and Tsunamis in the Guerrero Gap for Disaster Prevention”.
Conveners: Víctor M. Cruz-Atienza and Yoshihiro Ito.
Congress: Annual Meeting of the Mexican Geophysical Union.
Location: Puerto Vallarta, Mexico.
Dates: November 2 – 7, 2016.
- 2011 Spetial Session "Scenario 2011: Studies on a hypothetical tremor in Guerrero".
Conveners: Vala Hjörleifsdóttir, Xyoli Pérez-Campos, Arturo Iglesias Mendoza, Victor M. Cruz Atienza, Allen Husker and Denis Legrand.
Congress: Annual Meeting of the Mexican Geophysical Union.
Location: Puerto Vallarta, Mexico.
Dates: November 6 – 11, 2011.
- 2008 Special Sesion "Mathematical and Computational Modeling in Geof: Methodsand Applications".
Conveners: Ismael Herrera Revilla and Víctor M. Cruz-Atienza
Congress: Annual Meeting of the Mexican Geophysical Union.
Location: Puerto Vallarta, Mexico.
Dates: October 6 – 31, 2008.

Scientific Seminars

- 2008 – 2014 Founder and coordinator of "**Sismociones Libres**", quisennial meetings of discussion and analysis on seismology between scientists from various research centers of the Mexican Republic.
<http://areas.geofisica.unam.mx/sismologia/index.php/sismociones>

DISSEMINATION OF SCIENCE

Publications

- [“Deadly Mexico quakes not linked”](#) por Alexandra Witze, Nature, 549, 442, doi:10.1038/549442a, septiembre de 2017.
- [“Underwater network hunts for mysterious slow quakes”](#) por Lizzie Wade, Science, Vol. 358, Issue 6363, pp. 577, DOI: 10.1126/science.358.6363.577, noviembre de 2017.
- Working Group of the Cosmic Network of the City of Mexico. ["Seismic Network of Mexico City. How and why to understand earthquakes?"](#) Revista Ciencia, Academia Mexicana de Ciencias, V72, no. 1, January-March, 2021.
- Cruz-Atienza, V.M. What happened on September 19, 2017 in Mexico? September 23, 2018. Text reproduced in more than 20 print media throughout the country.
- Cruz-Atienza, V. M. [When the Earth shakes and certainties falter](#). Revista de la Universidad de México, num 834, Nueva Época, March 2018. 
- Suárez Gerardo, Sergio Alcocer and V. M. Cruz-Atienza. [For whom the alerts double](#). Magazine Letras Libres. p.p. 14-20, November, 2017. 
- Cruz-Atienza, V. M., S. K. Singh and M. Ordaz. [What happened on September 19, 2017 in Mexico?](#) Revista Digital Universitaria (RDU), vol. 18, num. 7, doi:10.22201/codeic.16076079e.2017.v18n7.a10, 2017. 
- Cruz-Atienza, V. M., S. K. Singh and M. Ordaz. [What happened on September 19, 2017 in Mexico?](#) Nexos Magazine, September 28, 2017. 
- Book [“Earthquakes. A Daily Threat”](#) by V. M. Cruz Atienza, p. 112, La Caja de Cerillos Ediciones A.C., ISBN: 978-607-8205-05-9, 2013. 
 - “Best Book of 2013 for the Divulgarion of Science”, V Independent Book Fair, Fondo de Cultura Económica, May 28, 2014.
 - Selected by the Mexican Ministry of Education as part of the "Libros del Rincón" distributed freely to all schools in the country (first reprint, 2014).
 - Selected and funded by the Mexico City Ministry of Civil Protection for free public distribution (second reprint, 2015).
 - More than 25,000 copies sold.

Lectures

- 2012 – 2021 Multiple lectures in different Mexican institutions.
- Conference "Seismology, a Vast and Fascinating Field of Research", Faculty of Engineering, UNAM, October 23, 2012.

- Conference "Simulating Earthquakes with Supercomputers" Institute of Geophysics, UNAM, Mexico. Cycle of Outreach Talks. June 30, 2011.
- Conference, Museum of Light, September 20, 2012.
- Conference, Liceo Franco Mexicano, January 20, 2014.
- Conference, Museo Tecnológico (MUTEC), Mexican Academy of Sciences, January 26, 2014
- Conference, Faculty of Engineering of the UNAM, March 21, 2014
- Conference, Autonomous University of the State of Morelos, April 11, 2014
- Conference, Autonomous University of the State of Mexico, May 6, 2014

Television interviews

- 2013 – 2022: Multiple interviews with prominent journalists and television media, such as: Canal 11, Canal 22, Foro TV, New York Times, TV UNAM, Canal 40, CNN, TV Azteca, Green TV, etc. Some highlights are:
 - [Talking with Cristina Pacheco](#) Canal 11 (09/02/2018)
 - [Symbiosis with Javier Cruz](#) TV UNAM (05/10/2018)
 - [Grammars of Creation with Laura García](#) TV UNAM (25/07/2019)
 - [Televisa News with Paola Rojas](#) Channel 2 (16/01/2018)
 - [Aristegui News with Carmen Aristegui and Marco Rascón](#) CNN (18/09/2015)
 - [In Short with Ana Cristina Olvera](#) Educational Television SEP (19/02/2018)
- TV broadcast and print version of Quo Magazine, 10 Capsules on earthquakes, Section "Smart Questions", October 2013.
- Televised round table on 'Canal 34' with the writer Raúl Cremoux in his program 'Barra Libre' on the earthquake in Tohoku-Oki, Japan. March 31, 2011.
- Live television interview (15') on 'Telemundo', program 'Levantate' about the Tohoku-Oki earthquake in Japan. March 21, 2011.
- Participation in the Round Table: Earthquakes and Tsunamis 11-03-11, in the seminar room Emilio Rosembueth, Institute of Engineering, UNAM. March 16, 2011.
- Live television interview (30') on 'Canal 22' together with Javier Cruz in the program 'Noticias 22' with journalist Laura Barrera, about the Tohoku-Oki earthquake in Japan. March 11, 2011.
- Live television interview (20') on 'Televisa S.A.' channel 'Foro TV', program 'Timely Response' with journalist Diane Pérez, about earthquakes in Mexico and the associated risk in Mexico City. April 11, 2011.
- Television debate on 'TV Azteca', program 'Estudio 41-21', on earthquakes, seismic risk and its understanding in Mayan mythology. May 20, 2010.
- Live television interview (30') on 'Televisa S.A.' channel 'Foro TV', program 'Timely Response' with journalist Diane Pérez, about earthquakes in Mexico and the associated risk in Mexico City. May 7, 2010.
- Live television interview (30') in 'Telestai', program 'De 7 a 9', about the nature of the dismos of Haiti, Mexicali and Chile of 2010. 7 May 2010.
- Live television interview (15') on 'TV Azteca' Channel 13, program 'Reporte 13', about the next great earthquake in Mexico, with journalist Ricardo Rocha. March 16, 2010.
- Television interview (15') on 'TV Azteca' Canal 40, program 'Barra de Opinión', with journalist Javier Cruz on the Physics of Earthquakes. March 8, 2010.

- Opinion televised (5') on 'TV Azteca' Canal 40, program 'Barra de Opinión', about the next great earthquake in Mexico and the associated risk. March 8, 2010.
- Television program "Science in Evidence", Channel 11 of the National Polytechnic Institute (IPN), Mexico. The interview was conducted at the facilities of the Institute of Geophysics, UNAM. Program broadcast on national network on September 30, 2008.
- Live television interview (15') on 'TV Azteca' channel 40, program 'Visión 40', about the earthquake in Haiti in 2010 and the seismic risk in Mexico, with journalist Oscar Mario Beteta. January 15, 2010.
- CNN with Carmen Aristegui, December 19, 2017
- Canal 22 with Laura Barrera
- Canal 11 with Javier Solórzano
- Channel 40, program File 40
- Green TV, programs "Environmental Policy" and "Blue Sphere, Ecological News"

Radio interviews

- 2010 – 2022: Multiple interviews with prominent journalists and analysts in various broadcast media in the country and abroad. Some highlights are:
 - [Aristegui News with Carmen Aristegui](#) (19/12/2017)
 - [The New York Times](#) (22/09/2017)
- Interview for 'Radio UNAM', program 'Los Universitarios Hablan', about the earthquake in Haiti in 2010, seismic risk in Mexico and research financing in Mexico. January 14, 2010.
- Ezra Shabot, MVS radio, third broadcast, April 21, 2014.
- Autonomous University of the State of Morelos, direction of science dissemination, Vórtice program, April 11, 2014