

AARON A. VELASCO

Professor

Professional Geophysicist

University of Texas at El Paso (UTEP)

Geological Sciences

El Paso, TX 79968-0555

Texas Lic. #5560

Office: (915) 747-5101

FAX: (915) 747-5073

aavelasco@utep.edu

1. EDUCATION

- Ph.D. (Geophysics), University of California, Santa Cruz 1993
- B. S. (Applied Geophysics), University of California, Los Angeles 1988

2. PROFESSIONAL EMPLOYMENT

- Professor, University of Texas at El Paso (UTEP) 2008-present
- State Seismologist of Texas, Railroad Commission of Texas 2017-present
- Special Assistant, Director of Strategic Initiatives 2016-2017
- Director, Computational Sciences Program, College of Science (UTEP) 2012-2013
- Interim Associate Dean for Research and Faculty Development, College of Science (UTEP) 2012-2013
- Chair, University of Texas at El Paso (UTEP) 2008-2011
- Associate Professor, University of Texas at El Paso (UTEP) 2002-2008
- Technical Staff Member, Los Alamos National Laboratory (LANL) 1997-2002
- Team and Task Leader, LANL 1999-2002
- Staff Geophysicist, Science Applications International Corporation 1993-1997
- Internet Consultant, Velasco Consulting Services 1994-1995
- Postdoctoral Researcher, Institute of Geophysics and Planetary Physics, Lawrence Livermore National Laboratory 1993
- Research Assistant, University of California, Santa Cruz (UCSC) 1988-1993
- Assistant Field Coordinator PASSCAL Instrument Deployments for:
 - Aftershocks of the Valle de Estrella, Costa Rica, Earthquake (UCSC) 1991
 - Calibration Explosions for the Santa Cruz Mountains (UCSC) 1991
 - Aftershocks of the Loma Prieta, California, Earthquake (UCSC) 1989
- Computer Programmer, Institute of Geophysics and Planetary Physics, University of California, Los Angeles 1987-1988

3. CONSULTANTSHIPS

- Expert Witness 2010-present
- Los Alamos National Laboratory 2002-2007
- Quantum Technologies (QTSI) 2004-2007

4. HONORS

- Distinguished Lecturer, Cal. State Dominguez Hills 2011
- IRIS/SSA Distinguished Lecturer 2009

- Graduate Commencement Keynote Speaker, UCSC 2007
- Hispanos Triunfadores, Science, Community Service Award, El Paso Chamber of Commerce 2006
- U.C. President's Postdoctoral Fellowship 1993-1994
- Ford Foundation Dissertation Year Fellowship 1992-1993
- American Geosciences Institute Scholarship 1991,1992
- Patricia Harris Roberts Fellowship 1988-1991
- National Hispanic Scholarship Fund 1989, 1990, 1991

5. PROFESSIONAL SOCIETIES

- American Geophysical Union
- Seismological Society of America
- Society for the Advancement of Chicanos and Native Americans in Science
- Geological Society of America
- Sigma Xi

6. TEACHING ASSIGNMENTS

- Advanced Physical Geology (GEOL 4315/5315), 3 hours, New Course, Lecture
co-taught with C. Andronicos
 - Fall 2003
- Advanced Seismology (GEOP 5356), 3 hours, Graduate, Lecture
 - Spring 2003, Spring 2005, Spring 2009, Fall 2010, Spring 2012, Fall 2013, Fall 2015, Fall 2019
- Digital Signal Processing, (GEOP 5460), 4 hours, Graduate, Lecture/Lab
 - Spring 2004, Spring, Spring 2008, Fall 2009, Fall 2014, Spring 2015
- Introduction to Physical Geology (GEOL 1301), 3 hours, Undergraduate, Lecture
 - Spring 2002, Spring 2003, Spring 2005, Fall 2005, Spring 2008, Spring 2012, Spring 2014, Fall 2015, Fall 2017, Fall 2018
- Principles of Earth Science (GEOL 1303), 3 hours, Undergraduate, Lecture
 - Fall 2003, Spring 2004, Spring 2006
- Seismic Methods (GEOP 4332), 4 hours, Lecture/Lab
 - Fall 2005
- Seismology, (GEOP 5354), 3 hours, Graduate, Lecture
 - Fall 2002, Fall 2004, Fall 2006, Fall 2008, Spring 2010, Fall 2011, Fall 2013, Spring 2015, Fall 2016, Spring 2019
- Verification Seismology, 2 day workshop for Los Alamos National Laboratory
co-taught with B. Stump
 - May 2006, May 2008

7. SERVICE

a. UTEP Service

- Edge Faculty Fellow, UTEP 2018-present
- Member, Personnel Committee 2008-present
- Co-chair, Kidd Seismic Observatory 2002-present

- Co-Chair, Search Committee for Shallow/Environmental Geophysicist 2016-2017
- Faculty Advisor, SACNAS Student Chapter 2004-2016
- Member, University Graduate Education Strategic Planning Committee 2015-2016
- Member, College Office for Undergraduate Research Initiatives (COURI) 2010-2016
- Member, Committee for Department Faculty Promotions 2014-2015
- Chair, Search Committee for Exploration Geophysicist 2013-2014
- Chair, Search Committee for Department Chair 2013-2014
- Member, University Honor Program Task Force 2013-2014
- Member, Diversity Advisory Council to the President 2012-2014
- Member, Executive Committee, Faculty Senate 2012-2013
- Pathways to the Geosciences High School Summer Camp, Geophysics, two days 2002-2012
- Chair, Budget Research Study Group 2011
- Chair, Geological Sciences 2008-2011
- Webmaster, Geological Sciences Web Page 2002-2008
- Member, College of Science Dean Selection Committee 2006-2007
- Graduate Advisor, Geological Sciences 2005-2007
- Undergraduate Advisor, Geological Sciences 2004-2005
- Liaison, University Library for Geological Sciences 2002-2005
- Top Ten Seniors Committee 2002
- Research and Engineering Apprenticeship Program (REAP) 2003-2005
- Introduction to Seismology and Nuclear Explosion Monitoring, two days for professionals, Los Alamos National Laboratory, 2002
- Lead Coordinator, Annual SACNAS Reception 2002-2004
- Panel Expert, Preparing Future Faculty, Alliance for Graduate Education and the Professoriate, UTEP-Howard University 2004
- Panel Expert, Alternative Careers in Science for REU Program 2003, 2004
- Judge, Student Research Expo 2004
- Presenter, Mother-Daughter Father-Son Program 2003, 2004

Postdoctoral Advisor

- Azucena Zamora, UTEP 2016-2017
- Anibal Sosa, UTEP 2013
- Hector Gonzalez-Huizar, UTEP 2010-2013
- Musa Hussein, UTEP 2010-2013
- Claudia Aprea, LANL 2000
- Michael Begnaud, LANL 1999-2000

Committee Chair, Masters Thesis

- Erik Urquiri, Geological Sciences 2019-present
- Alan Jacquez, Geological Sciences 2017-2019
- Nicolas Talavera, Geological Sciences 2015-2016

- Chanel Perez, Geological Sciences 2014-2015
- Richard Alfaro-Diaz, Geological Sciences 2014-2015
- Mohan Pant, Physics 2014-2015
- Arjun Neupane, Physics 2014-2015
- Sergio Celis, Geological Sciences 2012-2015
- Ibrahim Cerda, Geological Sciences 2010-2012
- Keisuke Irie, Geological Sciences 2010-2011
- Ezer Patlan (co-chair with J. Konter), Geological Sciences 2008-2011
- Lennox Thompson, Geological Sciences 2008-2010
- Derek Folger (co-chair with D. Doser), Geological Sciences 2004-2006
- Vicki Gee, Geological Sciences 2003-2005
- Todd Theiner, Geological Sciences 2003-2004

Committee Chair, Ph.D. Thesis

- Raquel Guzman, Geological Sciences 2019-present
- David Guenaga Geological Sciences 2017-present
- Solymar Alaya, Geological Sciences 2015-present
- Mohan Pant (co-chair with M. Karplus), Geological Sciences 2015-present
- Sandra Hardy, Geological Sciences 2012-present
- Richard Alfaro-Diaz, Geological Sciences 2015-2019
- Ezer Patlan, Geological Sciences 2011-2016
- Azucena Zamora, Computational Sciences 2011-2015
- Lennox Thompson, Geological Sciences 2011-2015
- Tina Carrick (co-chair with D. Doser), Geological Sciences 2011-2014
- Anibal Sosa, Computational Sciences 2011-2012
- Cara Schiek (co-chair with J. Hurtado), Geological Sciences 2004-2009
- Hector Gonzalez, Geological Sciences 2006-2009
- Eva Rumpfhuber, Geological Sciences 2003-2008
- Cleit Zeiler, Geological Sciences 2004-2008

GK-12 Supported/Mentored Students

- Richard Alfaro-Diaz, Ph.D. Student, Geological Sciences 2014-2015
- Anna Ortiz, Ph.D. Student, Geological Sciences 2014-2015
- M.S., Environmental Sciences 2012-2013
- Claire Bailey, Ph.D. Student, Geological Sciences 2014-2015
- Monica Delgado, Ph.D., Biomedical Engineering 2014-2015
- Anais Martinez, Ph.D., Biological Sciences 2014-2015
- Yvette Pereyra, M.S., Student, Geological Sciences 2014-2015
- Chanel Perez, M.S., Geological Sciences 2014-2015
- Keith Kofed, M.S., Environmental Sciences 2014-2015
- Sandra Hardy, Ph.D, Geological Sciences 2013-2015
- Lorraine Negron, Ph.D., Geological Sciences 2013-2014
- Toni Carrick, M.S., Chemistry 2013-2015
- David Quintanar, Ph.D., Biological Sciences 2013-2015
- Ector Martell, M.S., Environmental Sciences 2012-2014

- Katherine Meraz, Ph.D., Biological Sciences 2012-2014
- Francisco Reyes, M.S., Environmental Sciences 2012-2014
- Lauren Storm, M.S., Geological Sciences 2012-2013
- Azucena Zamora, Ph.D., Computational Sciences 2012-2014
- Mark Lara, Ph.D, Environmental Science and Engineering 2011-2013
- Nisa Rhodes, Ph.D., Geological Sciences 2011-2013
- Alia Servin, Ph.D., Environmental Science and Engineering 2011-2013
- Sandra Villareal, Ph.D., Environmental Science and Engineering 2011-2013
- Lennox Thompson, Ph.D., Geological Sciences 2011-2013
- Rolando Cardenas, Ph.D., Computational Science 2010-2012
- Gina Esposito, M.S., Environmental Sciences 2010-2012
- Ezer Patlan, Ph.D., Geological Sciences 2010-2012
- Christian Servin, Ph.D., Computational Sciences 2010-2012
- Cheryl Storer, Ph.D., Biological Sciences 2010-2012
- Jaidee Zavala, Ph.D., Biological Sciences 2010-2012
- Sarah Cervera, Ph.D., Geological Sciences 2010-2011
- Claudia Santiago, M.S., Geological Sciences 2010-2011

Committee Member, Masters Thesis

- Joel Castro, Computational Sciences 2017-2018
- Alan Jacquez, Geological Sciences 2017-2018
- Susana Garcia, Geological Sciences 2016-2017
- Marissa Cameron, Geological Sciences 2012-2014
- Cesar Chacon, Computer Sciences 2012
- Christina Hernandez, Environmental Sciences 2010-2012
- Irbis Gris, Computer Sciences 2010-2011
- Enrique Casana, Geological Sciences 2007
- Katy Wiest, Geological Sciences 2003-2005
- Cara Schiek, Geological Sciences 2003-2004
- Claudia Flores, Geological Sciences 2002-2003
- Roberto A. Saenz, Mathematical Sciences 2003

Committee Member, Ph.D. Thesis

- Victor Garcia, Geological Sciences 2017-present
- Manuel Moncada, Geological Sciences 2018-present
- Rachelle Kernan, Geological Sciences 2015-2019
- Lorraine Negron, Geological Sciences 2015-2019
- Afshin Gholamy, Computational Sciences 2017-2018
- Anna Mwangi, Geological Sciences 2015-2018
- Anthony Alvarez, Geological Sciences 2016-2018
- Ngozi Ochoa, Materials Sciences 2015-2018
- Eric Kappus, Geological Sciences 2014-2016
- Abdusalam Agail, Geological Sciences 2011-2016
- Victor Avila, Geological Sciences 2011-2016

- Sarah Cervera, Geological Sciences 2011-2013
- Nicholas Del Rio, Computer Sciences 2011-2013
- Leonardo Salayandia, Computer Sciences 2011-2012
- Niti Mankhemthong, Geological Sciences 2011-2012
- Antony Wamalwa, Geological Sciences 2008-2011
- Christian Escudero, Geological Sciences 2008-2011
- Oscar Romero-De La Cruz, Geological Sciences 2008-2011
- Matt Averill, Geological Sciences 2005-2007
- Wesley Brown, Geological Sciences 2003-2004
- Annette Veilleux, Geological Sciences 2003-2006
- Nicholas Mariita, Geological Sciences 2003

Mentored Research

- Aimee Garcia, Undergraduate Student 2019-present
- David Simpson, Undergraduate Student 2019-present
- Ian Trujillo, Undergraduate Student 2019-present
- Marc Garcia, Undergraduate Student 2019-present
- Ricardo Casas, Undergraduate Student 2018-2019
- Jessica Dozal, Undergraduate Student 2017-2018
- Vanessa Apodaca, Undergraduate Student 2016-2018
- Aide Huerta, Undergraduate Student 2016-2018
- Alan Jacquez, Undergraduate Student 2016-2017
- Alina Valdez, Undergraduate Student 2014-2017
- Mark Hathazi, Undergraduate Student 2016-2017
- David Soto, Undergraduate Student 2013-2016
- Ashley Grijalva, Undergraduate Student 2011-2014
- Sandra Hardy, Undergraduate Student 2011-2012
- Sergio Celis, Undergraduate Student 2011-2012
- Francisco Torres, Undergraduate Student 2011-2012
- Marissa Cameron, Undergraduate Student 2007-2011
- Andrew Lopez, Undergraduate Student 2007-2011
- Stephen Hernandez, Undergraduate Student 2005-2009
- Leandro Trevino Graduate Student 2003-2008
- Monica Maceira, Graduate Student, Penn. State University/Los Alamos National Laboratory (LANL) 2000-2006
- Daniel Hernandez, Undergraduate Student 2002-2004
- Thomas VanDeMark, Undergraduate Student 2002-2004
- Tiffini Bond, Graduate Student 2003
- Eric Hernandez, High School Student 2003-2005
- Melissa Brophy, Undergraduate Student 2003
- Dowchu Drukpa, Graduate Student 2002
- Jill Franks, Undergraduate Student, University of Saint Louis/LANL 2002
- Claudia Flores, Graduate Student 2001-2002
- Moira Pyle, Undergraduate Student, University of Saint Louis/LANL 2001

- Craig Whitted, Graduate student, University of Arizona 1999
- Brett Ketter, Graduate student, University of Saint Louis 1998

b. Professional Service

National/International

- Member, United States National Committee for the International Union of Geological Sciences, National Academy of Science 2017-present
- Member, Finance Committee, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) 2015-present
- Member, Strategic Planning Committee, Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) 2015-2016
- Member, National Research Council, Committee on Seismology and Geodynamics 2011-2014
- Chair, Data Products Committee, IRIS 2012-2013
- Scientist, Rapid Array Mobilization Program, 2010 Chile (M=8.9) Earthquake, IRIS 2010
- Member, Vision Committee, SACNAS 2010
- Past-President, SACNAS 2009
- President, SACNAS 2007-2008
- President Elect, SACNAS 2006
- Board Member, SACNAS 2002-2010
- Chair, Committee on Geosciences, SACNAS 2002-2010
- Member, TXESS Revolution Advisory Committee 2008-2009
- Member, National Research Council, Committee on Seismology and Geodynamics 2003-2009
- Chair, EarthScope Education and Outreach Committee 2005-2007
- Member, Task Force on Doctoral Education, UT System 2006-2007
- Member, EarthScope Advisory Panel 2006-2007
- Member, EarthScope Annual Meeting Planning Committee 2006-2007
- Member, IRIS Education and Outreach Standing Committee 2003-2006
- Chair, Committee on Student Presentations, SACNAS 2002-2005
- Member, Advanced National Seismic System, Central United States Panel 2002-2003
- Member, EARTHSCOPE Education and Outreach Committee 2002
- Committee Member, Digital Library for Earth System Education (DLESE) Diversity Committee 2005

State and Regional

- Member, Technical Advisory Committee, Texas Governor's Office 2018-2019
- Member, UT Task Force on Ph.D. Education 2006-2007
- Panel Member, Texas Education Agency 2003
- Organizing Committee, MiniCAST 2015 (El Paso) 2015

c. Community Service

- Member, Organizing Committee, miniCAST Science Teacher Conference, El Paso, TX 2014-2016,2018
- Guest Speaker, Polk Elementary Science Explosion Week, Generate an Earthquake, El Paso, TX 2018-2019
- Guest Speaker, Rock Presentation, Polk Elementary, El Paso, TX 2018-2019
- Expert, Local Television and Newspaper Interviews Regarding Earthquakes 2003-present
- Vice President, Board for Insights-El Paso Science Center, Inc. 2013-2015
- Member, Board for Insights-El Paso Science Center, Inc. 2010-2014
- President, Board for Insights-El Paso Science Center, Inc. 2011-2013
- Panel Member, Science Career Expo, Mission Early College High School 2011
- Marathon and Triathlon Coach, Leukemia and Lymphoma Society of America, Team in Training 1999-2006
- Expert, High School Geoscience Curriculum, Texas Education Agency 2003
- Volunteer, Bhutan Days, Geological Sciences Booth, UTEP 2003

8. PROFESSIONAL ACTIVITIES

a. Professional Presentations

State Seismologist Invited Talks

- Stanford Center for Induced Seismicity, State of the Railroad Commission Guidelines for Induced Seismicity, Midland TX 2018
- Unconventional Resources Technology Conference (URTeC), Seismicity and Saltwater Disposal Well Permitting 2018
- AAPG SW Section Meeting, Seismicity and Saltwater Disposal Well Permitting 2018
- Permian Basin Water in Energy Conference, Seismicity and Saltwater Disposal Well Permitting 2018
- SEG/SPE 4th Injection Induced Seismicity Workshop, An Update on Seismicity and Seismic Monitoring in Texas 2017

Distinguished and Keynote Lectures

- Cal State University, Dominguez Hills, Distinguished Speaker Series, Can a Large Earthquake in Another Country Cause One in Your Backyard? 2011
- University of Texas at El Paso, Louse Stokes Alliance for Minority Participation (LSAMP) Conference, Keynote Address 2010
- 2009 IRIS/SSA Distinguished Lecturer, Can a Large Earthquake in Another Country Cause One in Your Backyard?
- Coos Bay, OR 2009
- Denver Nature and Science Museum 2009
- Southern California Conference on Undergraduate Research, Pomona, Keynote Address 2008

- University of Texas at El Paso, Preparing Future Faculty, Keynote Address 2008
- 1st Summer International Conference on Education, University of Texas at El Paso, Keynote Address 2008
- University of California, Santa Cruz, Graduate Commencement Keynote Address 2007
- Master of Ceremonies, SACNAS Annual Meeting Awards Ceremony 2002, 2005, 2006

Invited Talks

- Nerd Nights, Insights Science Center, It's Our Fault 2018
- American Association for Professional Geophysicists, Southwest Section, El Paso, TX 2018
- West Texas Water Conference, Midland, TX 2018
- Seismological Society of America, Investigating earthquake stress release from triggered seismicity in geothermal and induced seismicity regions 2017
- University of Texas at El Paso, Dept. of Geological Sciences New approaches toward advancing our understanding of earthquakes and tectonic processes 2015
- Bureau of Economic Geology, Jackson School of Geosciences, UT Austin New approaches toward advancing our understanding of earthquakes and tectonic processes 2015
- MiniCAST 2015 (El Paso), Fact or Fiction: The Science Behind the Movie "San Andreas" 2015
- Science Teachers Association of Texas (El Paso), Geology of El Paso: It's Our Fault 2015
- SACNAS, Big Data in the Geosciences, Conference Session 2014
- Purdue University, The Roles of Static and Dynamic Stresses in Connecting Earthquakes: Case Studies of Recent Events, Seminar 2013
- Rotary Club, El Paso, TX, Can El Paso have a Large Earthquake?, Seminar 2012
- American Geophysical Union, Fall Meeting, The Roles of Static and Dynamic Stresses in Connecting Earthquakes: Case Studies of Recent Events (Invited for Session S21D) 2011
- Southern Methodist University, Dynamic Stress Modeling: Insights into the Physics of Earthquakes and Non-Volcanic Tremor, Seminar 2011
- Fort Bliss, El Paso, TX, Larger Earthquakes in El Paso?, Seminar 2011
- Cornell University, Can a Large Earthquake in Another Country Cause One in Your Backyard?, Seminar 2009
- National Earthquake Information Center, Can a Large Earthquake in Another Country Cause One in Your Backyard?, Seminar 2009
- New Mexico Tech, Can a Large Earthquake in Another Country Cause One in Your Backyard?, Seminar 2009
- Penn. State University, Insights into Dynamic Triggering 2007

- University of Central Washington, Insights into Dynamic Triggering 2007
- California State University Dominguez Hills, Insights into Dynamic Triggering 2007
- University of Wisconsin, The Bhutan Himalaya: Insights into Himalayan Formation from Seismic Data; The 2004 Sumatra earthquake 2006
- Georgia Tech, The Bhutan Himalaya: Insights into Himalayan Formation from Seismic Data 2006
- El Paso Community College, 15th Annual International Conference on the quality of life on the U.S.-Mexico border, Shake, Rattle, and Roll 2005
- Geological Society of America, Fall Meeting, The Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Geoscience Initiative 2004
- University of Texas at Austin, The Future of Seismology, Optimizing People and Performance (Diversity); The Bhutan Himalaya: Insights into Himalayan Formation from Seismic Data 2004
- IRIS Annual Workshop, The Future of Seismology, Optimizing People and Performance (Diversity) 2004
- Southern Methodist University, The Bhutan Himalaya: Insights into Himalayan Formation from Seismic Data 2004
- University of Texas at El Paso, Physics Department, The UTEP Geophysics Program 2004
- New Mexico Tech, The Bhutan Himalaya: Insights into Himalayan Formation from Seismic Data 2004
- Texas Education Agency, The EarthScope Initiative 2003
- University of Arizona, The Bhutan Himalaya: Preliminary Results from a Temporary Seismic Network 2003
- Joint Statistical Meetings, Annual Meeting, Nuclear Explosion Monitoring: History, Seismology, and Statistics 2003
- American Geophysical Union, Fall Meeting, The Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Geoscience Initiative 2002
- EARTHSCOPE Education and Outreach, The EarthScope Knowledge Base 2002
- University of Indiana, Bloomington, Unusual Seismic Events in China and Implications for Nuclear Explosion Monitoring 2001
- Purdue University, The 1997 Tibet ($M_w=7.5$) Earthquake: Rupture Characteristics and the Aftershock without a Shock 2001
- Saint Louis University, The 1997 Tibet ($M_w=7.5$) Earthquake: Rupture Characteristics and the Aftershock without a Shock 2001

Talks

- Insights Nerd Night, It's Our Fault 2018
- MiniCAST (Science Teacher) Conference, El Paso, Earthquakes in El Paso? It's not my Fault! 2016

- MiniCAST (Science Teacher) Conference, El Paso, Fact or Fiction: The science behind the movie San Andreas 2015
- Incorporated Research Institutions for Seismology, Annual Meeting 2002, 2004
- Seismic Research Symposium, Conference on Monitoring the Comprehensive Test Ban Treaty 1998-2003
- American Geophysical Union,
- Fall Meeting, 1989-1994,1996,1998-present
- Spring Meeting 1998
- Seismological Society of America, Annual Meeting 1999-2000, 2004-2006
- International Union of Geophysics and Geodesy, Vienna, Austria 1991
- Society for the Advancement of Chicanos and Native Americans in Science, Annual Meeting 1991, 1992, 1993, 1997, 2003, 2010-2012

b. Panel Member for Peer Review

- National Science Foundation, Earthscope 2013-2016
- National Science Foundation, GK12 2005
- National Earthquake Hazard Reduction Program, United States Geological Survey 2001
- Institute of Geophysics and Planetary Physics, Lawrence Livermore National Laboratory 2000

c. Professional Peer Reviewer

- Nature
- Journal of Geophysical Research
- Bulletin of the Seismological Society of America
- Tectonics
- Physics of the Earth and Planetary Interiors
- Natural Hazards
- Earth and Planetary Science Letters
- Pure and Applied Geophysics
- American Geophysical Union, Monograph Series
- Institute of Geophysics and Planetary Physics
- Geophysical Research Letters
- National Science Foundation
- National Nuclear Security Agency
- Department of Defense
- Department of Energy
- State Department
- Earth, Planets and Space (EPS)
- Geology
- Seismology Research Letters

9. FUNDED AND PENDING GRANTS

- (28) National Science Foundation, INTERN Supplement 6/2019
Title: INTERN Supplement GP_EXTRA: Academic Year Pathways Research

- Experience Program (AY-PREP)
 Role: PI; Amount: \$30,100 for one year Funded
- (27) National Science Foundation, REU Supplement 5/2019
 Title: REU Supplement: Collaborative Research: Investigating fault geometries and rupture processes in the Nepalese Himalaya following the April 25, 2015 Gorkha earthquake
 Role: co-PI; Amount: \$24,100 for one year Funded
 - (26) International Union of Geodesy and Geophysics, 7/2019
 Title: Lithospheric Seismicity and Tectonics in the Himalaya,"
 Role: co-PI, Amount: \$2000 for one year, renewable for 5 years Funded
 - (25) National Science Foundation, RAPID 10/2017
 Title: RAPID: Seismic Deployment for Capturing Aftershocks of the September 2017 Chiapas (M=8.1) and Puebla (M=7.1) Mexico Earthquakes
 Role: PI; Amount: \$34,713 for one year Funded
 - (24) National Science Foundation, HRD 8/2016
 Title: NSF INCLUDES: Building upon CAHSI's Success to Establish a Networked Community for Broadening Participation of Hispanics in Graduate Studies
 Role: co-PI; Amount: \$299,903 for two years Funded
 - (23) National Science Foundation, Geophysics 7/2016
 Title: Collaborative Research: Investigating fault geometries and rupture processes in the Nepalese Himalaya following the April 25, 2015 Gorkha earthquake
 Role: co-PI; Amount: \$213,221 for two years Funded
 - (22) National Science Foundation, IUSE 3/2015
 Title: GP_EXTRA: Academic Year Pathways Research Experience Program (AY-PREP)
 Role: PI; Amount: \$498,000 for three years Funded
 - (21) National Science Foundation, RAPID 6/2015
 Title: RAPID: Collaborative Research: Nepal Array Measuring Aftershock Seismicity Trailing Earthquake
 Role: co-PI; Amount: \$131,790 for one year Funded
 - (20) National Science Foundation, CREST 9/2012
 Title: CREST Phase II: Cyber-ShARE Center of Excellence
 Role: co-PI; Amount: \$5,000,000 for five years Funded
 - (19) National Science Foundation, Opportunities For Enhancing Diversity In The Geosciences 5/2011
 Title: Promoting Initiatives For Diversity In The Geosciences
 Role: Co-PI for SACNAS; Amount \$796,878 For Five Years Funded
 - (18) National Science Foundation, Earthscope 4/2011
 Title: Collaborative Research: Systematic Analysis Of Dynamic Earthquake Triggering Using The USARRAY
 Role: Co-PI; Amount \$252,898 for three years Funded
 - (17) National Science Foundation, Division of Undergraduate Education 4/2010
 Title: Recruiting and Keeping Undergraduate Students in the Sciences
 Role: co-PI; Amount: \$550,381 for five years Funded

- (16) National Science Foundation, Graduate STEM Fellows (GK-12) 6/2009
 Title: Science for a Sustainable Future: Developing the Next Generation of Diverse Scientists
 Role: PI; Amount: \$2,983,388 for five years Funded
- (15) National Science Foundation, Division of Earth Sciences 6/2009
 Title: Surface wave triggering of earthquakes and non-volcanic tremor: Insights into the physics of rupture
 Role: co-PI; Amount: \$279,362 for two years Funded
- (14) National Institute for Health, Nat. Inst. Gen. Medical Sciences (NIGMS) 02/2007
 Title: SACNAS: Initiatives for Equity in Science
 Role: co-PI; Amount: \$6,183,542 for five years Funded
- (13) National Science Foundation, CREST 03/2007
 Title: CREST: CREST: Cyber-ShARE Center of Excellence
 Role: co-PI; Amount: \$5,000,000 for five years Funded
- (12) National Science Foundation, International Polar Year 03/2007
 Title: IPY: A SACNAS Initiative for Engaging New Audiences for Polar Research
 Role: PI; Amount: \$1,296,770 for three years Funded
- (11) National Science Foundation, International Polar Year 05/2006
 Title: IPY-ROAM: International Polar Year Research and Educational Opportunities in Antarctica for Minorities
 Role: co-PI; Amount: \$452,108 for three years Funded
- (10) University of Texas, Advanced Research Projects 5/2006
 Title: Development of a methodology for integrated analysis to arrive at a 3-D models of earth structure
 Role: co-PI; Amount: \$69,506 Funded
- (9) National Science Foundation, Opp. Enhancing Diversity Geosciences 10/2004
 Title: Track 2: Pathways - A Geoscience Network for Training and Recruitment of Future Earth Scientists in El Paso
 Role: co-PI; Amount: \$1,484,851 for 5 years Funded
- (8) National Science Foundation, Opp. Enhancing Diversity Geosciences 10/2004
 Title: Track 2: SACNAS Initiative for Equity in the Geosciences
 Role: co-PI; Amount: \$1,242,876 for 5 years Funded
- (7) Department of Defense, Instrumentation and Research Support Program for Hispanic Serving Institutions 07/2004
 Title: Seismic Instrumentation for Solidifying Research Capabilities in Defense and Earthquake Science and Education
 Role: PI; Amount: \$200,000 Funded
- (6) International Program, National Science Foundation 02/2003
 Title: US-Bhutan Workshop: Seismotectonics and its Relationship to Natural Hazards in the Bhutanese Himalaya
 Role: co-PI; Amount: \$6,900 Funded
- (5) National Nuclear Security Administration 05/2003
 Title: Source Phenomenology Experiment (SPE) in Arizona,
 Role: co-PI; Amount: \$79,433 for two years Funded
- (4) National Science Foundation, Office of International Science and Engineering 2/2003
 Title: US-Bhutan Workshop: Seismotectonics and its Relationship to

- Natural Hazards in the Bhutanese Himalaya
 Role: co-PI; Amount: \$6,900 Funded
- (3) University Research Initiative, University of Texas at El Paso 11/2002
 Title: Evolution and seismic hazard of the southern Rio Grande rift near El Paso, TX.
 Role: PI; Amount: \$2,160 for 9 months Funded
 - (2) National Earthquake Hazards Reduction Program, U. S. Geological Survey 05/2002
 Title: Seismic investigation of historical and recent earthquakes of the Mendocino Triple Junctions region.
 Role: PI; Amount: \$80,098 for two years Funded
 - (1) Los Alamos National Laboratory 11/2001
 Title: Analysis of a seismic array in Bhutan.
 Role: co-PI; Amount: \$158,305 for three years Funded

10. PUBLICATIONS

a. Submitted

- Alfaro-Diaz, R., A. A. Velasco D. L. Kilb, and K. L. Pankow, 2019, The Impact of Stress Orientation on Remote Dynamic Triggering in the vicinity of the Coso Geothermal Field, in revision, *Journal of Geophysical Research*.
- Agail, A., A. A. Velasco, A. Sosa, D. Doser, and A. Zamora, 2019, Crustal Thickness and 1-D Shear Wave Velocity Model from Joint Inversion of Rayleigh Waves Dispersion Curves and Ps-Receiver Functions in Libya, Submitted to *Bull. Seis. Soc. Am.*
- Karplus, M. S., M. Pant, S. N. Sapkota, J. Nabelek, A. A. Velasco, L. B., Adhikari, A. Ghosh, S. L. Klemperer, V. Kuna, M. Mendoza, and J. Braunmiller, 2019, A rapid response network to record aftershocks of the 2015 M7.8 Gorkha Earthquake in Nepal, Submitted to *Seis. Res. Lett.*

b. Peer Reviewed

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d. Abstracts

169. (Invited) Velasco, A. A., 2019, Addressing Higher Education Deserts: Overcoming A Systematic Diversity Drought in the Geosciences, Abstract U23B-02, presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
168. (Invited) Velasco, A. A., 2019, Geology Knows No Borders: Developing Strong International Partnerships for Science Advances and Capacity Building, Abstract PA24-04, presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
167. Hardy, S., A. Zamora, and A. A. Velasco, 2019, UTEP's 2019 Pathways to Geoscience Summer Camp for High School Students, Abstract ED23F-1085, presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
166. Zamora, A., A. Sosa, A. A. Velasco, M. Maceira, and C. Chai, 2019, A Primal-Dual Approach for Joint Inversion of Seismic and Gravity Data: Gaining Insight Into the 3D Geophysical Structure of Colombia, Abstract S31D-054, presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
165. Velasco, A. A., S. Ayala Cortez, H. Gonzalez-Huizar, and A. L. Husker, 2019, Ground Motion Differences and Damage in Juchitan de Zaragoza, Oaxaca from the 2017 Tehuantepec, Mexico (M8.2) Earthquake from a Temporary Seismic Network, Abstract S33E-0627, presented at 2019 Fall Meeting, AGU, San Francisco, CA, 9-13 Dec.
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