Personal information

Surname(s) / First name(s)	**Quinteros, Javier**
Address(es)	Erfurter Str. 16, 10825 Berlin, Germany
Telephone(s)	+49 (30) 9559 1667
Email(s)	javier@gfz-potsdam.de
Nationality(-ies)	German, Argentine
Date of birth	17.05.1973

Professional experience and background

2013–present — GeoForschungsZentrum - Seismology - GEOFON

Position: GEOFON Data Manager

Description:

- Designer/developer of next generation tools for Scientific Data in Seismology.
- Define Data Managment Plans for GEOFON and other groups from GFZ and/or partner networks.
- Enforcement of written policies at all operational levels (EUDAT 2020).
- Implementation of internationally recognized best practices for data centres.
- Chair of the EIDA Technical Commission within the ORFEUS initiative.
- Working in the *"Data Collections Working Group"* of the Research Data Aliance (RDA) presenting GEOFON as successful use case.
- GEOFON representative in the EPOS project.
- GEOFON representative in the European Open Science Cloud (EOSC-hub) project.

2008–2013 — **Postdoctoral position** - GeoForschungsZentrum - Geodynamic Modeling

Research on: Numerical models applied to geodynamics.

2008 — **Postdoctoral position in Computer Sciences** - University of Buenos Aires

Research on: Finite element method applied to geodynamics.

2008 — **PhD in Computer Sciences** - University of Buenos Aires

2003 — **Licenciado in Computer Sciences (Masters)** - University of Buenos Aires

Personal competences

Scientific Data Management: DOIs and Persistant Identifiers (PID), Cloud solutions, Authentication and Authorization solutions, Automatic Workflows.

Programming languages: Python, C, C++, MPI, Matlab, Octave, UNIX shell scripting, SQL and others.

Teaching experience

2016 — **Lecturer** - Helmholtz Virtual Institute Dead Sea Research Venue
DESERVE Winter School

2016 — **Lecturer** - International Centre for Theoretical Physics
School on Seismology beyond Textbooks

2015 — **Invited Professor** - University of Buenos Aires (FCEN)
Introduction to thermo-mechanical modelling for geodynamics

2015 — **Lecturer** - Badan Meteorologi, Klimatologi, dan Geofisika (BMKG)
Waveform Archive Access and Administration

2015 — **Lecturer** - Geo.X Second SULU Workshop
SeisComP3 for data handling and analysis

1996–2008 — **Teaching Assistant** - University of Buenos Aires (FCEN)
New Techniques in Data Compression (2000–2008)
Data Systems (1999–2000)
Computer Architecture II (1996–1998)

Others

2015–2020 — **PhD Supervision** - Matías Barrionuevo. *Modelado numérico de la orogenia relacionada a subducción en los Andes Centrales del Sur (30-36° S). Análisis del papel de las características de la placa superior.* PhD thesis, University of Buenos Aires, Buenos Aires, Argentina, In progress.

2014–2016 — **PhD Supervision** - Marius Walter. *Geodynamic Evolution of the Neuquén Andes*. PhD thesis, University of Potsdam, Potsdam, Germany, In progress.

2008–2009 — **Master Thesis Supervision** - Gabriel H. Bursztyn. Una nueva implementación para las ecuaciones de Navier-Stokes mediante KLE y elementos espectrales. Master's thesis, University of Buenos Aires, Buenos Aires, Argentina, Oct 2009.

Journal, Book and Project reviewer — The Andes - Active subduction orogeny. Springer Verlag (2006).

Physics of the Earth and Planetary Interiors.
Journal of Structural Geology.
Journal of South American Earth Sciences.
Studia Geophysica et Geodaetica.
Revista de la Asociación Geológica Argentina.
National Agency of Scientific and Technological Promotion (ANPCyT - Argentina)
Mecánica Computacional.

Mother tongue(s) — **Spanish**

Other language(s) — English and German

Third party Projects

2017-2020	*SERA*. Seismology and Earthquake Engineering Research Infrastructure Alliance for Europe Funding Agency: H2020
2018-2019	*Geo-data-node*. Aufbau eines fachspezifischen Datenknotenpunkts Funding Agency: BMBF Position: GEOFON Data Expert.
2018-2020	*EOSC-hub*. European Open Science Cloud Funding Agency: FP7 Position: GEOFON Data Expert.
2015-2019	*EPOS-IP*. European Plate Observing System - Implementation Phase Funding Agency: H2020 Position: GEOFON Data Expert.
2015-2020	Univ. of Potsdam/GeoForschungsZentrum *Surface processes, Tectonics and Georesources: The Andean forland basin of Argentina (StRATEGy)*. Speaker: Prof. Dr. Manfred Strecker. Funding Agency: DFG Category: Co-PI of subproject.
2015-2018	*EUDAT2020*. Funding Agency: H2020 Category: Service Integrator / Development Group.
2013-2016	Helmholtz International Research Group *Geodynamic Evolution of the Neuquen Andes: Implications for Geo-Resources*. Funding Agency: Helmholtz Association Category: PI / Head of the research group.
2013-2014	*NERA*. Network of European Research Infrastructures for Earthquake Risk Assessment and Mitigation Funding Agency: FP7 Category: Developer.
2008	UBACyT - Univ. of Buenos Aires *Computational Methods in some topics of continuum mechanics*. Director: Prof. Dr. Pablo Jacovkis. Category: Researcher.
2004-2007	UBACyT - Univ. of Buenos Aires, Code: X-160 *Tectonic processes related to subduction. Comparative analysis*. Director: Prof. Dr. Víctor Ramos. Category: Research Assistant.
2004-2007	PICT - FONCYT, Code: 26001 *Wavelets and Neural Networks: Integrated Approaches and Applications*. Director: Prof. Dr. Ana M. C. Ruedin and Prof. Dr. Enrique Segura. Category: PhD Student.

Scientific Publications

Peer-reviewed full articles

Angelo Strollo, Winfried Hanka, Joachim Saul, Andres Heinloo, Susanne Hemmleb, Peter Evans, Javier Quinteros, Thomas Zieke, Karl-Heinz Jaeckel, and Frederik Tilmann. GEOFON: GeoForschungsNetz. *Journal of Large-scale Research Facilities*, In preparation, 2017.

Tobias Weigel, Bridget Almas, Frederik Baumgardt, Thomas Zastrow, Ulrich Schwardmann, Maggie Hellström, Javier Quinteros, and Dirk Fleischer. Recommendation on research data collections. Technical report, Research Data Alliance, Submitted.

Lucas Fennel, Javier Quinteros, Sofía B. Iannelli, Marius Walter, Andrés Folguera, and Vanesa D. Litvak. The role of the slab pull force in the late oligocene to early miocene extensional regime in the central andes ($17°$-$46°$s): insights from numerical modeling. *Journal of South-American Earth Sciences*, Submitted.

Daniel Melnick, Marcos Moreno, Javier Quinteros, Juan Carlos Baez, Zhiguo Deng, Shaoyang Li, and Onno Oncken. The super-interseismic phase of the megathrust earthquake cycle in Chile. *Geophysical Research Letters*, 44:784–791, 2017. doi:10.1002/2016GL071845.

Daria Cyprych, Sascha Brune, Sandra Piazolo, and Javier Quinteros. Strain localization in polycrystalline material with second phase particles: Numerical modeling with application to ice mixtures. *Geochemistry, Geophysics, Geosystems*, 17:3608–3628, 2016. doi:10.1002/2016GC006471.

Peter D. Clift, Sascha Brune, and Javier Quinteros. Climate changes control offshore crustal structure at South China Sea continental margin. *Earth and Planetary Science Letters*, 420:66–72, 2015. doi:10.1016/j.epsl.2015.03.032.

Erik Duesterhoeft, Javier Quinteros, Roland Oberhaensli, Romain Bousquet, and Christian de Capitani. Relative impact of mantle densification and eclogitization of slabs on subduction dynamics: a numerical thermodynamic/thermokinematic investigation of metamorphic density evolution. *Tectonophysics*, 637:20–29, 2014. doi:10.1016/j.tecto.2014.09.009.

Javier Quinteros and Stephan V. Sobolev. Why has the Nazca plate slowed since the Neogene? *Geology*, 41(1):31–34, 2013. doi:10.1130/G33497.1.

Daniel Melnick, Yannick Garcin, Javier Quinteros, Manfred R. Strecker, Daniel Olago, and Jean-Jacques Tiercelin. Steady rifting in northern Kenya inferred from deformed Holocene lake shorelines of the Suguta and Turkana basins. *Earth and Planetary Science Letters*, 331–332:335–346, 2012. doi:10.1016/j.epsl.2012.03.007.

Javier Quinteros and Stephan V. Sobolev. Constraining kinetics of metastable olivine in Marianas slab from seismic observations and dynamic models. *Tectonophysics*, 526–529:48–55, 2012. doi:10.1016/j.tecto.2011.11.005.

Alejandro D. Otero and Javier Quinteros. General parallel finite/spectral-element oriented C/C++ framework. In P. Iványi and B. H. V. Topping, editors, *Proceedings of the Second International Conference on Parallel, Distributed, Grid and Cloud Computing for Engineering*. Civil-Comp Press, Stirlingshire, UK, 2011. Paper 68. doi:10.4203/ccp.95.68.

Javier Quinteros, Stephan V. Sobolev, and Anton A. Popov. Viscosity in transition zone and lower mantle. Implications for slab penetration. *Geophysical Research Letters*, 37:L09307, 2010. doi:10.1029/2010GL043140.

Matías C. Ghiglione, Javier Quinteros, Daniel Yagupsky, Pedro Bonillo-Martínez, Julio Hlebszevtich, Víctor A. Ramos, Gustavo Vergani, Daniel Figueroa, Santiago Quesada, and Tomás Zapata. Structure and tectonic history of the foreland basins of southernmost South America. *Journal of South American Earth Sciences*, 29(2):262–277, 2010. doi:10.1016/j.jsames.2009.07.006.

Gabriel H. Bursztyn, Javier Quinteros, and Alejandro D. Otero. An object oriented version of the Kinematic Laplacian Equation Method. In Eduardo Dvorkin, Marcela Goldschmit, and Mario Storti, editors, *Mecánica Computacional*, volume XXIX, pages 2095–2110. Buenos Aires, Argentina, 2010.

Javier Quinteros and Alejandro D. Otero. Towards parallel solution of continuous problems by means of a general finite/spectral-element oriented C/C++ framework. In 39° *International Conference on Computer Science and Operational Research*, pages 3195–3210. Buenos Aires, Argentina, 2010.

Javier Quinteros, Víctor A. Ramos, and Pablo M. Jacovkis. An elasto-visco-plastic model using the finite element method for crustal and lithospheric deformation. *Journal of Geodynamics*, 48(2):83–94, 2009. doi:10.1016/j.jog.2009.06.006.

Gabriel H. Bursztyn, Alejandro D. Otero, and Javier Quinteros. Una nueva implementación para las ecuaciones de Navier-Stokes mediante KLE y elementos espectrales. In *Mecánica Computacional*, volume XXVII, pages 2367–2383. San Luis, Argentina, 2008.

Javier Quinteros and Martín V. Kind. A wavelet-based methodology for data integration in reservoir modeling. In Pablo Agraz, Claudio Larriestra, Horacio Verdur, Aldo Montagna, and José Massaferro, editors, *Modelado Geológico*, pages 239–261. Instituto Argentino del Petróleo y del Gas, Mar del Plata, Argentina, 2008.

Javier Quinteros, Pablo M. Jacovkis, and Víctor A. Ramos. Diseño flexible y modular de modelos numéricos basados en Elementos Finitos. In Sergio A. Elaskar, Elvio A. Pilotta, and Germán A. Torres, editors, *Mecánica Computacional*, volume XXVI, pages 1724–1740. Córdoba, Argentina, 2007.

Martín V. Kind and Javier Quinteros. History-Matched Reservoir Model Validation based on Wavelets Methods. In *2007 SPE Latin American and Caribbean Petroleum Engineering Conference*, page 11 pp. Buenos Aires, Argentina, Apr 2007. doi:10.2118/108124-MS.

Javier Quinteros, Pablo M. Jacovkis, and Víctor A. Ramos. Evolution of the Upper Crustal Deformation in Subduction Zones. *Journal of Applied Mechanics*, 73(6):984–994, 2006. doi:10.1115/1.2204962.

Javier Quinteros, Pablo M. Jacovkis, and Víctor A. Ramos. Formación de cordilleras y delaminación litosférica. un modelo elasto-visco-plástico mediante elementos finitos. In Alberto Cardona, Norberto Nigro, Victorio Sonzogni, and Mario Storti, editors, *Mecánica Computacional*, volume XXV, pages 2669–2686. Santa Fe, Argentina, 2006.

Javier Quinteros, Víctor A. Ramos, and Pablo M. Jacovkis. Modelado Numérico para la deformación de la corteza superior en los Andes Australes. *Revista de la Asociación Geológica Argentina*, 60(4):714–723, 2005.

Javier Quinteros, Pablo M. Jacovkis, and Víctor A. Ramos. Modelado numérico del levantamiento orogénico y su potencial relación con clima y erosión. In Gustavo C. Buscaglia, Enzo A. Dari, and Oscar M. Zamonsky, editors, *Mecánica Computacional*, volume XXIII, pages 2923–2931. Bariloche, Argentina, Nov 2004.

Javier Quinteros and Ana M. C. Ruedin. Minimization of errors in L4-norm for decoding quantized data: its application to quantization of wavelet coefficients. In 33° *International Conference on Computer Science and Operational Research*, Córdoba, Argentina, Sep 2004.

Javier Quinteros and Ana M. C. Ruedin. Quantization of wavelet coefficients. In 32° *International Conference on Computer Science and Operational Research*, Buenos Aires, Argentina, Sep 2003.

Published Software

Marcelo Bianchi, Peter L. Evans, Andres Heinloo, and Javier Quinteros. WebDC3 Web Interface. GFZ German Research Center for Geosciences, 2015. doi:10.5880/GFZ.2.4/2016.001.

Extended and short abstracts

Vasily Bunakov, Alexia de Casanove, Pascal Dugenie, Rene van Horik, Simon Lambert, Javier Quinteros, and Linda Reijnhoudt. Data curation policies for EUDAT collaborative data infrastructure. In *Data Analytics and Management in Data Intensive Domains*, volume In Press, Moscow, Russia, Oct 2017.

Angelo Strollo, Joachim Saul, Javier Quinteros, Peter Evans, Riccardo Zaccarelli, Andres Heinloo, Susanne Hemmleb, Thomas Zieke, Michael Guenther, Karl-Heinz Jaeckel, Winfried Hanka, and Frederik Tilmann. GEOFON services for the german geophysical community. In *77. Jahrestagung der Deutschen Geophysikalischen Gesellschaft e.V.*, volume A-524, Potsdam, Germany, Apr 2017.

Giovanni Morelli, Massimo Fares, Luca Trani, and Javier Quinteros. EPOS as one of the actors in the EUDAT's engagement with the Earth Sciences. In *Geophysical Research Abstracts*, volume EGU2017-19651, Vienna, Austria, Apr 2017.

Luca Trani, M. Koymans, Javier Quinteros, Andres Heinloo, Fabian Euchner, Angelo Strollo, Reinoud Sleeman, John Clinton, Klaus Stammler, Peter Danecek, Helle Pedersen, C. Ionescu, A. Pinar, and C. Evangelidis. The European seismological waveform framework EIDA. In *Geophysical Research Abstracts*, volume EGU2017-13770, Vienna, Austria, Apr 2017.

Sibiao Liu, Stephan V. Sobolev, and Javier Quinteros. First results of high-resolution modeling of Cenozoic subduction orogeny in Andes. In *2016 Fall Meeting*, volume In Press, San Francisco, Calif., Dec 2016. AGU.

Lucas Martín Fennell, Marius Walter, Javier Quinteros, and Andrés Folguera. Late Oligocene - Early Miocene extension in the Central Andes: insights from numerical modeling. In *Primer Simposio de Tectónica Sudamericana*, volume In Press, Santiago, Chile, Nov 2016.

Javier Quinteros, Susanne Hemmleb, Peter Evans, Andres Heinloo, and Angelo Strollo. Latest develpments at GEOFON Data Centre. In *35th General Assembly of the European Seismological Commision*, Trieste, Italy, Sept 2016.

Aurélien Dupont, Andres Heinloo, Rémy Bossu, Joachium Saul, Gilles Mazet-Roux, Angelo Strollo, Frédéric Rousel, Peter Evans, and Javier Quinteros. Real-time synergy between seismological institutions to confirm and locate earthquakes: from EMSC's slashdot detections to the exploitation of GFZ's network of seismic networks thanks to HMB messaging service. In *35th General Assembly of the European Seismological Commision*, Trieste, Italy, Sept 2016.

Javier Quinteros, Peter Evans, Angelo Strollo, Damian Ulbricht, Kirsten Elger, and Roland Bertelmann. Moving towards persistent identification in the seismological commmunity. In *Geophysical Research Abstracts*, volume 18, Vienna, Austria, Apr 2016.

Henry Wichura, Javier Quinteros, Daniel Melnick, Sascha Brune, Wolfgang Schwanghart, and Manfred R. Strecker. Evolution of the lake victoria basin in the context of coeval rift initiation in east africa: a 3d numerical model approach. In *Exkursionsführer und Veröffentlichungen der Deutschen Gesellschaft für Geowissenschaften*, volume 255, page 397, Vienna, Austria, Apr 2015.

Matías Barrionuevo, José Mescua, Javier Quinteros, and Laura Giambiagi. Propuesta de desarrollo de modelos numéricos para analizar procesos geodinámicos en los Andes Centrales (30-36 s). In *XVI Reunión de Tectónica*, General Roca, Río Negro, Argentina, Oct 2015.

Marius Walter, Javier Quinteros, and Stephan V. Sobolev. Numerical modeling of fluid migration in subduction zones. In *2015 Fall Meeting*, volume In Press, San Francisco, Calif., Dec 2015. AGU.

Peter D. Clift, Sascha Brune, and Javier Quinteros. Climate modulated erosion and sediment flux control offshore crustal structure at south china sea continental margin. In *2015 Fall Meeting*, volume In Press, San Francisco, Calif., Dec 2015. AGU.

Daria Czaplinska, Sascha Brune, and Javier Quinteros. Strain localisation in two-phase materials: Insights from centimetre-scale numerical models and laboratory experiments with ice mixtures. In *2015 Fall Meeting*, volume In Press, San Francisco, Calif., Dec 2015. AGU.

Peter D. Clift, Sascha Brune, and Javier Quinteros. Climate modulated erosion and sediment flux control offshore crustal structure at south china sea continental margin. In *Geological Society of America Abstracts with Programs*, volume 47–32, Baltimore, Maryland, USA, Nov 2015. GSA.

Angelo Strollo, Javier Quinteros, Reinoud Sleeman, Luca Trani, John Clinton, Klaus Stammler, Peter Danecek, Helle Pedersen, and Constantin Ionescu. EIDA Next Generation: ongoing and future developments. In *Geophysical Research Abstracts*, volume 17, page 9924, Vienna, Austria, Apr 2015.

Marius J. Walter, Javier Quinteros, and Stephan V. Sobolev. Numerical modeling of fluid migration in subduction zones. In *Geophysical Research Abstracts*, volume 17, page 8532, Vienna, Austria, Apr 2015.

Henry Wichura, Javier Quinteros, Daniel Melnick, Sascha Brune, Wolfgang Schwanghart, and Manfred R. Strecker. Evolution of the Lake Victoria basin in the context of coeval rift initiation in East Africa: a 3D numerical model approach. In *Geophysical Research Abstracts*, volume 17, page 5950, Vienna, Austria, Apr 2015.

Sascha Brune, Peter D. Clift, and Javier Quinteros. Anomalous subsidence at South China Sea rifted margin: Sediments digging their own hole. In *Geophysical Research Abstracts*, volume 17, page 8172, Vienna, Austria, Apr 2015.

Cedric Thieulot, Susanne Buiter, Sascha Brune, Rhodri Davies, Thibault Duretz, Muriel Gerbault, Anne Glerum, Javier Quinteros, Stefan Schmalholz, and Wim Spakman. A two- and three-dimensional numerical comparison study of slab detachment. In *Geophysical Research Abstracts*, volume 17, page 9255, Vienna, Austria, Apr 2015.

Marius Walter, Javier Quinteros, and Stephan V. Sobolev. Implementing fluid flow in SLIM-3D. In K. Elger, O. T. Haug, and M. Ritter, editors, *Proceedings of GeoMod2014 - Modelling in Geosciences: Programme and Extended Abstracts*, Potsdam, Germany, Sep 2014.

Erik Duesterhoeft, Javier Quinteros, Roland Oberhaensli, and Romain Bousquet. Early-stage subduction dynamics: a combined thermodynamic and geodynamic model. In *15th Symposium on Tectonics, Structural Geology and Geology of Crystalline Rocks*, Potsdam, Germany, Apr 2014.

Javier Quinteros and Joachim Saul. A fully automated implementation of the mBc magnitude for a real-time system. In *Second European Conference on Earthquake Engineering and Seismology*, Istanbul, Turkey, Aug 2014.

Marcos Moreno, J. C. Baez, John Bedford, Javier Quinteros, Andrés Tassara, Daniel Melnick, Onno Oncken, C. Vigny, M. Bartsch, Matthias Rosenau, H. Soto, M. Bevis, and S. Barrientos. Did the 2010 Chile earthquake change the locking degree at neighboring plate interface segments of the Andean subduction zone? In *Geophysical Research Abstracts*, volume in Press, Vienna, Austria, Apr 2014.

Matthieu Quinquis, Susanne Buiter, Nicola Tosi, Cédric Thieulot, Petra Maierová, and Javier Quinteros. A numerical model setup for subduction: From linear viscous to thermo-mechanical rheologies. In *Geophysical Research Abstracts*, volume 15, pages EGU2013–7255–1, Vienna, Austria, Apr 2013.

Javier Quinteros and Stephan V. Sobolev. Why does the convergence rate between Nazca and South America slow since the Neogene? In *2012 Fall Meeting*, volume T43F-2738, San Francisco, Calif., Dec 2012. AGU.

Javier Quinteros and Stephan V. Sobolev. Why does the convergence rate between Nazca and South America decrease since the Neogene? In *Geodynamics Workshop 2012*, Wandlitz, Germany, Sep 2012. Deutsche Geophysikalische Gesellschaft.

Javier Quinteros and Stephan V. Sobolev. Kinetics of metastable olivine constrained by seismic observations and dynamic models. In *12th Workshop on Mantle Convection and Lithospheric dynamics*, Potsdam, Germany, Aug 2011.

Javier Quinteros and Stephan V. Sobolev. Viscosity in transition zone and lower mantle constrained by numerical models. In *12th Workshop on Mantle Convection and Lithospheric dynamics*, Potsdam, Germany, Aug 2011.

Javier Quinteros and Stephan V. Sobolev. Viscosity in transition zone and shallow lower mantle - Insight from numerical models of subduction. In *Geophysical Research Abstracts*, volume 13, pages EGU2011–12447, Vienna, Austria, Apr 2011.

Javier Quinteros and Stephan V. Sobolev. Did growth of high Andes slow down Nazca plate subduction? In *2010 Fall Meeting*, volume T11A-2040, San Francisco, Calif., Dec 2010. AGU.

Javier Quinteros and Stephan V. Sobolev. Constraining viscosity in transition zone and shallow lower mantle from numerical models of subduction. In *International Geological Modelling Conference - GeoMod 2010*, Lisboa, Portugal, Sep 2010.

Javier Quinteros and Stephan V. Sobolev. The role of fluids in the subduction channel: towards a new thermomechanical model. In *11th Workshop on Mantle Convection and Lithospheric dynamics*, pages 91–92, Braunwald, Switzerland, Jun 2009.

Javier Quinteros and Stephan V. Sobolev. Towards a new thermomechanical model of subduction channel. In *Geophysical Research Abstracts*, volume 11, pages EGU2009–8684, Vienna, Austria, Apr 2009.

Javier Quinteros, Víctor A. Ramos, and Pablo M. Jacovkis. Constraints on delamination from numerical models. In 7° *International Symposium on Andean Geodynamics*, pages 417–420, Nice, France, Sep 2008. IRD Éditions.

Javier Quinteros, Víctor A. Ramos, and Pablo M. Jacovkis. Estudio de la delaminación cortical en un orógeno mediante un modelo numérico. In *XIII Reunión de Tectónica*, pages 49–49, San Luis, Argentina, Oct 2006.

Javier Quinteros. Interaction between Deformation and Erosion in the Southern Patagonian Andes. In *Backbone of the Americas - Patagonia to Alaska*, Mendoza, Argentina, Apr 2006.

Javier Quinteros, Víctor A. Ramos, and Pablo M. Jacovkis. A finite element model for the early to middle Miocene evolution of the Patagonian Andes at $47°$s. In $6°$ *International Symposium on Andean Geodynamics*, pages 582–585, Barcelona, Spain, 2005. IRD Éditions.

Javier Quinteros, Víctor A. Ramos, and Pablo M. Jacovkis. Numerical model for Upper Crustal deformation. In *Actas del XVI Congreso Geológico Argentino*, volume 1, pages 415–420, La Plata, Argentina, Sep 2005.

Matías C. Ghiglione, Javier Quinteros, Julio Hlebszevitsch, Daniel Yagupsky, Claudio Haring, and Gustavo Vergani. Cuencas del extremo Austral de la Placa Sudamericana: Diferencias, conexiones y una historia en común. In *Actas del XVI Congreso Geológico Argentino*, volume 1, pages 201–206, La Plata, Argentina, Sep 2005.

Javier Quinteros, Víctor A. Ramos, and Pablo M. Jacovkis. Miocene crustal deformation in Southern Patagonian Andes and the rain-shadow effect - Argentina and Chile. In GeoUnion Alfred-Wegener-Stiftung, editor, *Terra Nostra*, volume 1, pages 95–95, Potsdam, Germany, Apr 2005.

Invited speaker in Scientific Meetings

Javier Quinteros. Seismology in 21st century: from seismic stations to a professional data center. In *4th KSETA Plenary Workshop 2017*, Durbach, Germany, Feb 2017.

Javier Quinteros. From seismic stations to integrated datacenters and computational facilities. In *Large Scale Data Management and Analysis (LSDMA) Symposium*, Karlsruhe, Germany, Nov 2015.

Javier Quinteros. ¿Por qué se desacelera la convergencia entre Nazca y Sudamérica desde el Neógeno? Una nueva perspectiva desde los modelos numéricos de subducción. In *IDEAN Seminaries*, Buenos Aires, Argentina, Oct 2012. Instituto de Estudios Andinos - Universidad de Buenos Aires.

Javier Quinteros. Did the Andes slow down the convergence between Nazca and South America? Insight from numerical models of subduction. In *Goldschmidt lecture series*, Trondheim, Norway, Dec 2010. NGU - Geological Survey of Norway.

Javier Quinteros. Constraining nature. Insight from numerical models of subduction. In *Seminaries of Geodynamic*, Prague, Czech Republic, Nov 2010. Institute of Geophysics - Charles University in Prague.

Javier Quinteros. Viscosity in the transition zone - Constraints from numerical models. In *c2c Project - Core to Crust: the fate of subducted material*, Trondheim, Norway, Jun 2010. Keynote speaker.

Javier Quinteros. Numerical modelling of Plate Tectonics - The whole world inside equations. In *Jornadas sobre Estructuras en las Ciencias*, Buenos Aires, Argentina, Nov 2006. Cátedra Walter Gropius (FADU-UBA) y el Servicio Alemán de Intercambio Académico (Deutscher Akademischer Austauschdienst).

Javier Quinteros, Pablo M. Jacovkis, and Víctor A. Ramos. Efectos de la erosión en el levantamiento de los Andes: un modelo matemático. In *Segundas Jornadas sobre Ecuaciones Diferenciales, Optimización y Análisis Numérico*, Córdoba, Argentina, Mar 2005. Proyecto "Partial Differential Equations and Numerical Optimization with Applications", subsidiado por la Fundación Antorchas.

Awards

Doctoral scholarship financed by the National Council for Scientific and Technical Research (CONICET) - (Apr-2004 / Mar-2008).

Javier Quinteros. Asignación óptima de bits en la cuantización de la transformada wavelet y multiwavelet, May 2003. Best National Thesis Prize - EST'03 in the 32^{nd} International Conference on Computer Science and Operational Research (JAIIO 2003).