

Alejandro Tejedor

ASSISTANT PROFESSOR

Sorbonne University Abu Dhabi

Al Reem Island, Abu Dhabi, United Arab Emirates

☎ (+971) 564874358 | ✉ alej.tejedor@gmail.com | 🏠 atejedor.com | 🐦 @AlejTejedor | 📧 al.tejedor

Research Interests

Earth-surface processes; Network Science; River Deltas; Landscape evolution; Information Theory; Complex Systems; River Networks; Graph-Theory; Nonlinear dynamics; Self-similar networks; Fractals; Hierarchical systems; Aggregation processes; Modeling; Self-organized criticality.

Education

Universidad de Zaragoza

Zaragoza, Spain

PH.D. IN PHYSICS

2011

- Area of Study: Statistical Seismicity
- Thesis Topic: *Study of Predictability of Cellular automata with application to seismicity*
- Advisers: Prof. Amalio F. Pacheco and Prof. Javier B. Gómez

Universidad de Zaragoza

Zaragoza, Spain

M.S. IN PHYSICS AND PHYSICAL TECHNOLOGIES

2008

- Grade: 9.23/10

Universidad de Zaragoza

Zaragoza, Spain

B.S. IN PHYSICS

2007

Academic Appointments

Sorbonne University Abu Dhabi

Abu Dhabi, UAE

ASSISTANT PROFESSOR

February 2020 - present

- Department: Department of Science and Engineering
- Focus: Complex Systems, Earth surface processes

University of California, Irvine

Irvine, USA

ASSOCIATE SPECIALIST AND LECTURER

July 2016 - present

- Department: Department of Civil and Environmental Engineering
- Supervisor: Prof. Efi Foufoula-Georgiou
- Focus: River Deltas, Landscape Evolution, Networks, Earth surface processes

Max Planck Institute for the Physics of Complex Systems

Dresden, Germany

VISITING SCIENTIST

December 2018 - February 2020

- Group: Nonlinear Dynamics and Time Series Analysis
- Supervisor: Prof. Dr. Holger Kantz
- Focus: River Deltas, Networks, Nonlinear Dynamics, Earth surface processes

University of Minnesota

Minneapolis, USA

POSTDOCTORAL ASSOCIATE

September 2013 - June 2016

- Department: Saint Anthony Falls Laboratory
- Supervisor: Prof. Efi Foufoula-Georgiou
- Focus: River Deltas, Landscape Evolution, River Networks

University of Nevada, Reno

Reno, USA

POSTDOCTORAL SCHOLAR

November 2011 - August 2013

- Department: Department of Mathematics and Statistics
- Supervisor: Dr. Ilya Zaliapin
- Focus: Aggregation processes and Self-similar Networks

Teaching Experience

Sorbonne University Abu Dhabi

Abu Dhabi, UAE

ASSISTANT PROFESSOR

2019/2020 - Semester 2

- PHYS 005. Intro to the Labs 2 (Foundation Year)
- PHYS 140. Active Science (Undergraduate Level)
- PHYS 203. Waves (Undergraduate Level)

University of California, Irvine

TEACHING ASSISTANT

- CEE 298. Wavelets in Hydrology and Earth Systems (Graduate Level)

Irvine, USA

Winter 2018

University of California, Irvine

LECTURER

- ENGRCEE 283. Mathematical Methods in Engineering Analysis. (Graduate Level)

Irvine, USA

Fall 2016

Summer Institute on Earth-surface Dynamics (NCED)

INVITED LECTURER

- Tulane University - July 2015
- University of Minnesota - August 2014

USA

2015-2016

UNED (National Distance Education University)

ADJUNCT PROFESSOR

- Physics I, Physics II and Experimental Physics I (Undergraduate Level)
- Mechanics I.

Calatayud, Spain

2009-2011

Student advising

Ph.D.

University of California Irvine

LAWRENCE VULIS

2017-present

- Co-Advised
- Area of Study: Artic Deltas

Honors and Awards

- | | | |
|------|-----------------------------------------------------------------------------------------------------------------|---------|
| 2018 | Research Fellowship , Max Planck Institute - Visitors program | Germany |
| 2016 | Postdoctoral Fellowship , Postdoctoral Synthesis Fellowship - National Center for Earth-surface Dynamics | USA |
| 2011 | Summa Cum Laude , Ph.D. in Physics - University of Zaragoza, Spain | Spain |
| 2008 | Predocctoral Fellowship , Predocctoral Fellowship - Government of Aragon, Spain | Spain |

Professional Activities and Leadership

CONFERENCE AND WORKSHOP ORGANIZATION

12th International Precipitation Conference IPC12

Irvine, CA, USA

PROGRAM COMMITTEE

June 19 - 21, 2019

- More than 150 abstracts received

Data Analytics for Climate and Earth (DANCE)

Lake Arrowhead, CA, USA

CO-ORGANIZER

March 27-29, 2019

- Funded by LIFE (NSF)
- 32 participants

SESSION ORGANIZATION

AGU Fall Meeting 2019

San Francisco, CA, USA

CO-ORGANIZER

December 9-13, 2019

- Session: River Deltas: Hydrology, Geomorphology, and Sedimentology
- Union Session: Data Analytics and Machine Learning Innovation for Climate and Earth Surface Processes

AGU Fall Meeting 2016

San Francisco, CA, USA

CO-ORGANIZER

December 12-16, 2016

- Session: Comparing and Contrasting Geomorphic Channel Networks

REFeree SERVICE

PNAS, Journal of Geophysical Research, Earth Surface Dynamics, SIAM Journal on Applied Mathematics, Physical Review E, New Journal of Physics, Scientific Reports, Water Resources Research, Earth's Future, Nonlinear Processes in Geophysics, Physica A, Physica D: Nonlinear Phenomena, Physics and Chemistry of the Earth.

Funding and Projects

Research Fellowship

Germany

PRINCIPAL INVESTIGATOR

2018

- Awarded by the Max Planck Society - Visitors Program
- Funds: \$110,000

Understanding deltas through the lens of their channel networks

USA

CO-INVESTIGATOR

2018

- Awarded by the National Science Foundation - NSF EAR- 1811909
- I participated in the proposal preparation and I am an active researcher in the project
- Funds: \$300,000

TRIPODS+X:RES: Data Science Frontiers in Climate Science

USA

CO-INVESTIGATOR

2018

- Awarded by the National Science Foundation - DMS- 1839336
- I participated in the proposal preparation and I am an active researcher in this project
- Funds: \$300,000

Synthesis Post-doc Fellowship

USA

PRINCIPAL INVESTIGATOR

2016

- Awarded the National Center for Earth-surface Dynamics (a National-Science-Foundation Science and Technology Center)
- Funds: \$30,000

NSF-Belmont Forum: DELTAS

International

CO-INVESTIGATOR

2013

- Awarded by the Belmont Forum
- I participated as a researcher in this project
- Funds: \$2,100,000

Envirodynamics on River Networks

USA

CO-INVESTIGATOR

2013

- Awarded by the National Science Foundation - NSF DMS- 0934871
- I participated as a researcher in this project
- Funds: \$225,000

Pre-Doctoral Fellowship

Spain

PRINCIPAL INVESTIGATOR

2008

- Awarded by Government of Aragon, Spain
- Funds: \$60,000

Referred Journal Publications

PUBLISHED

1. Vulis, L., **A. Tejedor**, J. Schwenk, A. Piliouras, J. Rowland, and E. Foufoula-Georgiou. Channel network control on seasonal lake area dynamics in arctic deltas. *Geophys. Res. Lett.*, 47, e2019GL086710 (2020).
2. Valleriani, M., F. Krätli, M. Zamani, **A. Tejedor**, C. Sander, M. Vogl, S. Bertram, G. Funke, H. Kantz. The emergence of epistemic communities in the 'Sphaera'corpus: mechanisms of knowledge evolution. *Journal of Historical Network Research*, 3(1), 50-91 (2019).
3. **Tejedor, A.**, A. Longjas, E. Foufoula-Georgiou, T. Georgiou, and Y. Moreno. Diffusion Dynamics and Optimal Coupling in Directed Multiplex Networks. *Phys. Rev. X* 8, 031071. 2018.
4. **Tejedor, A.**, A. Longjas, P. Passalacqua, Y. Moreno and E. Foufoula-Georgiou. River deltas as Multiplex networks: A framework for studying multi-process multi-scale connectivity via coupled-network theory. *Geophys. Res. Lett.* 45. 2018.
5. **Tejedor, A.**, A. Longjas, D. Edmonds, I. Zaliapin, T. Georgiou, A. Rinaldo and E. Foufoula-Georgiou. Entropy and Optimality in River Deltas. *PNAS* 114, 11651-11656. 2017.
6. **Tejedor, A.**, A. Singh, I. Zaliapin, A. Densmore and E. Foufoula-Georgiou. Scale-dependent erosional patterns in steady-state and transient-state landscapes. *Sci. Adv.* 3, e1701683 2017.
7. **Tejedor, A.**, A. Longjas, I. Zaliapin, S. Ambroj and E. Foufoula-Georgiou. Network robustness assessed within a dual connectivity framework. *Scientific Reports* 7, 8567. 2017.
8. Danesh-Yazdi, M., **A. Tejedor**, and E. Foufoula-Georgiou, Self-Dissimilar Landscapes: Revealing the Signature of Geologic Constraints on Landscape Dissection via Topologic and Multi-Scale Analysis. *Geomorphology* 295, 16-27. 2017.
9. Brondizio E., E. Foufoula-Georgiou, S. Szabo, N. Vogt, Z. Sebesvari, F. G Renaud, A. Newton, E. Anthony, A.V. Mansur, Z. Matthews, S. Hetrick, S.M. Costa, Z. Tessler, **A. Tejedor**, A. Longjas, J.A. Dearing. The BF-Deltas project - Catalyzing Action Towards the Sustainability of Deltas. *Curr. Opin. Environ. Sustain.* 19, 182-194. 2016.
10. Szabo, S., E. Brondizio, S. Hetrick, F.G. Renaud, Z. Matthews, R.J. Nicholls, Z. Tessler, **A. Tejedor**, Z. Sebesvari, E. Foufoula-Georgiou, S. Costa, J.A. Dearing. Population dynamics, delta vulnerability and environmental change: Comparison of the Mekong, Ganges-Brahmaputra and Amazon delta regions *Sust. Sci.* 11, 539-554. 2016.
11. Sebesvari Z., F.G. Renaud, S. Haas, Z. Tessler, M. Hagenlocher, J. Kloos, S. Szabo, **A. Tejedor**, C. Kuenzer. A review of vulnerability indicators for deltaic social-ecological. *Sust. Sci.* 11, 575-590. 2016.
12. **Tejedor, A.**, A. Longjas, R. Caldwell, D Edmonds, I. Zaliapin , E. Foufoula-Georgiou. Quantifying the signature of sediment composition on the topologic and dynamic complexity of river delta channel networks and inferences towards delta classification. *Geophys. Res. Lett.* 43, 3280. 2016.

13. **Tejedor, A.**, A. Longjas, I. Zaliapin, and E. Foufoula-Georgiou. Delta Channel Networks: 2. Metrics of topologic and dynamic complexity for delta comparison, physical inference and vulnerability assessment. *Water Resources Research* 51, 4019, 2015.
14. **Tejedor, A.**, A. Longjas, I. Zaliapin, and E. Foufoula-Georgiou. Delta Channel networks. 1. A graph-theoretic approach for studying connectivity and steady-state transport. *Water Resources Research* 51, 3998. 2015.
15. **Tejedor, A.**, J.B. Gómez, and A.F. Pacheco. The Negative Binomial Distribution as a Renewal Model for the Recurrence of Large Earthquakes. *Pure and Applied Geophysics*, 172, 23-31, 2015.
16. **Tejedor, A.**, J.B. Gómez, and A.F. Pacheco. One-Way Markov Process Approach to Repeat Times of Large Earthquakes in Faults. *J Stat Phys.* 149:951-963. 2012.
17. **Tejedor, A.**, J.B. Gómez, and A.F. Pacheco. A hierarchical model for distributed seismicity. *Phys. Rev. E*, 82, 016118. 2010.
18. **Tejedor, A.**, J.B. Gómez, and A.F. Pacheco. Prediction of stasis and crisis in the Bak-Sneppen model. *Physics Letters A*, 373(44): 4077-4081 2009.
19. **Tejedor, A.**, J.B. Gómez, and A.F. Pacheco. Earthquake size-frequency statistics in a forest-fire model of individual faults. *emphPhys. Rev. E*, 79, 046102. 2009.
20. **Tejedor, A.**, S. Ambroj, J.B. Gómez, and A.F. Pacheco. Predictability of the large relaxations in a cellular automaton model. *J. Phys. A: Math. Theor.*, 41:375102, 2008.

UNDER REVIEW

21. Stevens, A., R. Willett, A. Mamalakis, E.Foufoula-Georgiou, J.Randerson, P. Smyth, S. Wright, **A. Tejedor**. Graph-guided regularization for improved seasonal forecasting. (*Under Review*)
22. **Tejedor, A.**, A. Singh, J.-L. Grimaud, E. Foufoula-Georgiou. Experimental evidence of rainfall-driven knickpoints. (*Submitted to Geophys. Res. Lett. - Under Review*)

Invited Talks

23. **Tejedor, A.** Diffusion Dynamics on Directed Multiplex Networks: The emergence of an optimal coupling and a new regime of superdiffusion. In: *Workshop on Characterizing Interactions in Complex Systems* - Czech Academy of Sciences, Prague, Czech Republic, November 2019.
24. **Tejedor, A.** What can we learn from the emergent connectivity patterns in geomorphic systems? In: *GAIA seminar series - Géosciences Montpellier* - Université de Montpellier, France, October 2019.
25. **Tejedor, A.** A network-theory approach for studying Earth-surface processes. In: *16th International Workshops on Complex Systems and Networks* - Humboldt-Universität zu Berlin, Germany, September 2019.
26. **Tejedor, A.** Connectivity as a tool to investigate hydro-geomorphic systems. In: *Seminar at the Key Laboratory of Water Cycle and Related Land Surface Processes, CAS* - Beijing, China, September 2019.
27. **Tejedor, A.** What can we learn from the emergent connectivity patterns in geomorphic systems? **Keynote** in: *Non-Equilibrium Flow and Landform Coupling Workshop* - Loughborough University, UK, May 2019.
28. **Tejedor, A.** Diffusion Dynamics and Optimal Coupling in Directed Multiplex Networks In: *Chemnitz-Dresden Focus Meeting on Nonlinear Dynamics and Nonequilibrium Statistical Physics* - TU Chemnitz, Germany, January 2019.
29. **Tejedor, A.** Understanding River Deltas through the lens of their channel networks In: *Asian School of the Environment - Seminars* - Nanyang Technological University, Singapore, February 2018.
30. **Tejedor, A.** Understanding River Deltas through the lens of their channel networks In: *Applied Mathematics - Seminars* - Rochester University of Technology, Rochester, NY, January 2018.
31. **Tejedor, A.** Modeling multi-process connectivity in river deltas: extending the single layer network analysis to a coupled multilayer network framework In: *Fall AGU Meeting*, New Orleans, December 2017.
32. **Tejedor, A.** Experimental evidence of scale-dependent erosional patterns in steady-state and transient-state landscapes. In: *Geoscience Seminars* - University of Nevada, Reno, October 2017.
33. **Tejedor, A.** Delta channel network connectivity. In: *CUNY Advanced Science Research Center*, New York, September 2016.
34. **Tejedor, A.** Decoding the delta *enigma*. In: *Utrecht University*, Utrecht, June 2016.
35. **Tejedor, A.**, I. Zaliapin. Tokunaga Self-Similarity: Statistical inference and applications to river networks. In: *STRESS 4: Connectivity, Non-Linearity, and Regime Transitions in Future Earthscapes Workshop*, Lake Tahoe, NV, April 2013.

Conference Talks

36. **Tejedor, A.**, A. Longjas, H. Kantz. E. Foufoula-Georgiou, P. Passalacqua and Y. Moreno. A general framework to study multi-process connectivity: Multilayer Networks. In: *EGU*, Vienna, April 2019.
37. **Tejedor, A.**, A. Longjas, E. Foufoula-Georgiou, T.T. Georgiou and Y. Moreno. Optimal Coupling in Directed Multiplex Networks: A new type of superdiffusion. In: *Conference on Complex Systems, CCS2018*, Thessaloniki, Greece, September 2018.
38. **Tejedor, A.**, A. Longjas and E. Foufoula-Georgiou. River deltas through the lens of their channel networks: Inferring process from form and delta self-organization. In: *Conference on Complex Systems, CCS2018*, Thessaloniki, Greece, September 2018.

39. **Tejedor, A.**, A. Longjas and E. Foufoula-Georgiou. An Optimality underlying self-organization of river deltas. In: *Earth's Dynamic Landscapes - First Annual SoCal Geomorphology Symposium*, Caltech, Pasadena, May 2018.
40. **Tejedor, A.**, A. Longjas, D. Edmonds, I. Zaliapin, T. Georgiou, A. Rinaldo and E. Foufoula-Georgiou. Optimality and self-organization in river deltas. In: *Fall AGU Meeting*, New Orleans, December 2017.
41. **Tejedor, A.**, A. Longjas, and E. Foufoula-Georgiou. Is there a self-organization principle of river deltas? In: *EGU*, Vienna, April 2017.
42. Singh, A., **A. Tejedor**, J.L.Grimaud I. Zaliapin, and E. Foufoula-Georgiou. Quantifying the scale- and process- dependent reorganization of landscape under climatic change: inferences from an experimental landscape. In: *Fall AGU Meeting*, San Francisco, December 2016.
43. Singh, A., **A. Tejedor**, A. Densmore, and E. Foufoula-Georgiou. Landscape response to climate change: quantifying a regime shift in transport processes at the onset of reorganization . In: *EGU*, Vienna, April 2016.
44. **Tejedor, A.**, A. Longjas, R. Caldwell, D Edmonds, I. Zaliapin , E. Foufoula-Georgiou. Moving beyond the Galloway diagrams for delta classification: Connecting morphodynamic and sediment-mechanistic properties with metrics of delta channel network topology and dynamics. *Fall AGU Meeting*, San Francisco, December 2015.
45. **Tejedor, A.**, A. Longjas, I. Zaliapin and E. Foufoula-Georgiou. A graph-theoretic approach to River Deltas: Studying complexity, universality, and vulnerability to change. In: *EGU*, Vienna, April 2015.
46. Singh, A., **A. Tejedor**, I. Zaliapin, L. Reinhardt, and E. Foufoula-Georgiou. Experimental evidence of dynamic re-organization of evolving landscapes under changing climatic forcing. In: *EGU*, Vienna, April 2015.
47. Foufoula-Georgiou, E., J. Schwenk and **A. Tejedor**. Perspective ” Open problems in earth surface dynamics require innovative new methodologies from graph theory and non-linear analysis. In: *EGU*, Vienna, April 2015.
48. Danesh-Yazdi, M., **A. Tejedor**, E. Foufoula-Georgiou. Self-dissimilar Landscapes: Probing into Causes and Consequences via Multi-scale Analysis and Synthesis. *Fall AGU Meeting*, San Francisco, December 2014.
49. Foufoula-Georgiou, E., **A. Tejedor**, A. Longjas, I. Overeem, F. Renaud, and J. Dearing. Constructing vulnerability maps of material and energy pathways in deltas. In: *Deltas in times of climate change II international conference*, Rotterdam (Netherlands), September 2014.
50. **Tejedor, A.**, I. Zaliapin. Tokunaga river networks: New empirical evidence and applications to transport problems. In: *Fall AGU Meeting*, San Francisco, December 2013.
51. Zaliapin, I., **A. Tejedor**. Random self-similar trees: statistical inference and hydrological applications. In: *Mathematical Congress of the Americas 2013*, Guanajuato (Mexico), August 2013.
52. **Tejedor, A.**, J.B. Gómez, and A.F. Pacheco. A hierarchical model for distributed seismicity. In: *Maths and Earth Workshop*, Zaragoza, June 2011.
53. **Tejedor, A.**, J.B. Gómez, and A.F. Pacheco. A hierarchical model for distributed seismicity. In: *Syposium Geophysical & Geochemical Geosystems*, Zaragoza, June 2009.
54. **Tejedor, A.**, J.B. Gómez, and A.F. Pacheco. A hierarchical model for distributed seismicity. In: *EGU General Assembly 2009*, Vienna, April 2009.

Conference Posters

55. **Tejedor, A.**, J. Schwenk, M.G. Kleinhans, P.A. Carling and E. Foufoula-Georgiou. The Braiding Index 2.0: eBI. In: *Fall AGU Meeting*, San Francisco, December 2019.
56. Vullis, L., **A. Tejedor**, J. Schwenk, A. Piliouras, J.C. Rowland, G. Pease and E. Foufoula-Georgiou. Revealing channel network control on seasonal lake area dynamics in Arctic deltas. In: *Fall AGU Meeting*, San Francisco, December 2019.
57. Roy, J., **A. Tejedor**, and A. Singh. Dynamic clusters to infer topological controls on environmental transport on river networks. In: *Fall AGU Meeting*, San Francisco, December 2019.
58. Stevens, A., R. Willett, A. Mamalakis, E. Foufoula-Georgiou, J. Randerson, P. Smyth, S. Wright and **A. Tejedor**. Graph-Guided Regularization for Improved Forecasting of Southwestern US Winter Precipitation. In: *Fall AGU Meeting*, San Francisco, December 2019.
59. **Tejedor, A.** A network approach to investigate River Deltas. In: *International Workshop on Dynamical Methods in Data-based Exploration of Complex Systems*, Dresden, October 2019.
60. Vullis, L., **A. Tejedor**, J. Schwenk and E. Foufoula-Georgiou. Inferring Surface and Subsurface Lake-Channel Connectivity in Arctic Deltas. In: *EGU*, Vienna, April 2019.
61. Vullis, L., **A. Tejedor**, Schwenk, J. and E. Foufoula-Georgiou. Channel-Lake Connectivity in Arctic Deltas. In: *Fall AGU Meeting*, Washington DC, December 2018.
62. Singh, A., Z. Wu and **A. Tejedor**. Interplay of advective and diffusive processes on landscape organization and evolution. In: *Fall AGU Meeting*, Washington DC, December 2018.
63. Schwenk, J., **A. Tejedor**, E. Foufoula-Georgiou and J.C. Rowland. Automatic Extraction of Delta Channel Network Topology. In: *Fall AGU Meeting*, Washington DC, December 2018.
64. A. Longjas, **Tejedor, A.** and E. Foufoula-Georgiou. River deltas as Multiplex networks: A framework for studying multi-process multi-scale connectivity via coupled-network theory. In: *Earth's Dynamic Landscapes - First Annual SoCal Geomorphology Symposium*, Caltech, Pasadena, May 2018.

65. Singh, A., **A. Tejedor**, JL Grimaud and E. Foufoula-Georgiou. Experimental evidence of rainfall driven knickpoints. In: *Fall AGU Meeting*, New Orleans, December 2017.
66. Longjas, A., **A. Tejedor** and E. Foufoula-Georgiou. Graph Theory Approach for Studying Food Webs. In: *Fall AGU Meeting*, New Orleans, December 2017.
67. Singh, A., **A. Tejedor**, JL Grimaud and E. Foufoula-Georgiou. Experimental evidence of landscape reorganization under changing external forcing: implications to climate-driven knickpoints. In: *EGU*, Vienna, April 2017.
68. **Tejedor, A.**, A. Longjas and E. Foufoula-Georgiou. River delta self-organization via entropy rate analysis. In: *Fall AGU Meeting*, San Francisco, December 2016.
69. Marra, W., **A. Tejedor**, E. Addink, E. Foufoula-Georgiou and M. Kleinhans. Connectivity of Multi-Channel Fluvial Systems: A Comparison of Topology Metrics for Braided Rivers and Delta Networks. In: *Fall AGU Meeting*, San Francisco, December 2016.
70. **Tejedor, A.**, A. Longjas, R. Caldwell, D. Edmonds, I. Zaliapin and E. Foufoula-Georgiou. Moving beyond the Galloway diagrams for delta classification: A graph theoretic approach. In: *EGU*, Vienna, April 2016.
71. Singh, A., **A. Tejedor**, I. Zaliapin, L. Reinhardt and E. Foufoula-Georgiou. Experimental evidence of reorganizing landscape under changing climatic forcing. In: *Fall AGU Meeting*, San Francisco, December 2015.
72. **Tejedor, A.**, A. Longjas, I. Zaliapin and E. Foufoula-Georgiou. A graph-theoretic approach to Studying Deltaic Systems: Quantifying Complexity and Self-Organization. In: *CSDMS Annual Meeting*, Boulder, Colorado, May 2015.
73. Longjas, A., **A. Tejedor**, I. Zaliapin and E. Foufoula-Georgiou. Vulnerability maps of deltas: quantifying how network connectivity modulates upstream change to the shoreline. In: *CSDMS Annual Meeting*, Boulder, Colorado, May 2015.
74. **Tejedor, A.**, A. Longjas, I. Zaliapin, E. Foufoula-Georgiou. Network topology, Transport dynamics, and Vulnerability Analysis in River Deltas: A Graph-Theoretic Approach. In: *Fall AGU Meeting*, San Francisco, December 2014.
75. Foufoula-Georgiou, E., **A. Tejedor**, A. Longjas, I. Zaliapin. Quantitative Metrics of Robustness in River Deltas. In: *Fall AGU Meeting*, San Francisco, December 2014.
76. Longjas, A., **A. Tejedor**, I. Zaliapin, S. Ambroj, E. Foufoula-Georgiou. Network Robustness: the *whole* story. In: *Fall AGU Meeting*, San Francisco, December 2014.
77. Singh, A., **A. Tejedor**, I. Zaliapin, L. Reinhardt, E. Foufoula-Georgiou. Emergent reorganization of an evolving experimental landscape under changing climatic forcing. In: *Fall AGU Meeting*, San Francisco, December 2014.
78. **Tejedor, A.**, A. Longjas, I. Zaliapin, E. Foufoula-Georgiou. Defining network robustness using a dual connectivity perspective. In: *30th IUGG Mathematical Geophysics*, Merida (Mexico), June 2014.
79. **Tejedor, A.**, A. Longjas, I. Zaliapin, E. Foufoula-Georgiou. Asymmetry in the Evolution of Competing Processes in Networks. In: *Network Frontier Workshop*, Northwestern University. Evanston, IL, December 2013.
80. **Tejedor, A.** and I. Zaliapin. Horton and Tokunaga self-similarity for multiplicative coalescent process: numerical approach. In: *Fall AGU Meeting*, San Francisco, December 2–7, 2012.
81. **Tejedor, A.**, J.B. Gómez, and A.F. Pacheco. Aperiodicity in one-way Markov cycles and repeat times of large earthquakes. In: *Maths and Earth Workshop*, Zaragoza, June 2011.
82. **Tejedor, A.**, J.B. Gómez, and A.F. Pacheco. A hierarchical model for distributed seismicity. In: *European Seismological Commission 32nd General Assembly (ESC2010)*, Montpellier, September 6–10, 2010.