Meet our Research Faculty

Alejandro Tejedor
Assistant Professor
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### Research Interests

Earth-surface processes: River deltas and landscape evolution.
Data analysis and modelling in Geosciences.

### Research Collaborations

- **Prof. Efi Foufoula-Georgiou** - University of California Irvine, USA: *River deltas, Arctic deltas, Landscape Evolution, Network theory applications to Geoscience problems.*
- **Prof. Ilya Zaliapin** – University of Nevada, Reno, USA: *Coalescent processes, Self-similarity, River networks.*
- **Prof. Arvind Singh** – University of Central Florida, USA: *Landscape Evolution*
- **Prof. Douglas Edmonds** – Indiana University, USA: *Numerical modelling in river deltas*
- **Prof. Yamir Moreno** – University of Zaragoza, Spain: *Multiplex Networks and Network theory.*
- **Prof. Holger Kantz and Prof. Matteo Valleriani** – Max Planck Institute, Germany: *Network analysis of historic sources.*

### Publications

#### Journal articles

Publications in peer-reviewed scientific journals in the last 5 years (from 2015).

For full publication list: [https://www.atejedor.com/publications](https://www.atejedor.com/publications)
or [https://scholar.google.com/citations?user=6S2_6bwAAAAJ&hl=en](https://scholar.google.com/citations?user=6S2_6bwAAAAJ&hl=en)


Conference communications and seminar

Invited and keynotes


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.


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.


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.

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.

Tejedor, A. Understanding River Deltas through the lens of their channel networks In: Applied Mathematics - Seminars - Rochester University of Technology, Rochester, NY, January 2018.


Tejedor, A. Decoding the delta enigma. In: Utrecht University, Utrecht, June 2016.


**Contributed communications in international conferences and workshops (Last 5 years)**


Professional activities

Workshop and conference organisation

Member of Organizing Committee, 12th International Precipitation Conference IPC12, Irvine, CA, June 19-21, 2019.

Co-Organizer of the Data Analytics for Climate and Earth (DANCE) workshop, Lake Arrowhead, CA, March 27-29, 2019.
Session organisation in international conferences

AGU Fall meeting 2019 (San Francisco, CA, December 12-16, 2019).

- Union Session co-organized: “Data Analytics and Machine Learning Innovation for Climate and Earth Surface Processes”.

AGU Fall meeting 2016 (San Francisco, CA, December 9-13, 2019).
- Co-organized: “Comparing and Contrasting Geomorphic Channel Networks”.

Committees

AGU selection committee for the Devendra Lal Memorial Medal since 2020

Referee service for several journals including


Professional memberships

American Geophysical Union (since 2011)

European Geosciences Union (since 2013)