POSITIONS HELD

9/1/2025—Current	Paros Assistant Professor of Geohazards & Climate Mitigation Columbia Climate School Leader of the River Origins, Evolution, & Response Lab (ROER Lab)
9/2023-8/2025	Postdoctoral Research Scientist, Lamont Fellow Lamont-Doherty Earth Observatory, Columbia University Advisors: Suzana Camargo, Michael Steckler
8/2022-7/2023	Postdoctoral Scholar UC Santa Barbara Earth Research Institute Advisors: Vamsi Ganti
1/2022-6/2022	Scientist Exponent Engineering and Scientific Consulting Practice: Environmental & Earth Sciences
11/2019–10/2021	Postdoctoral Associate University of Minnesota St. Anthony Falls Laboratory Advisors: Chris Paola, Elisabeth Steel
6/2014-9/2014	Research Scientist Caltech Earth Surface Dynamics Laboratory Advisor: Michael Lamb
9/2012–6/2014	Undergraduate Research Assistant UCLA Department of Earth & Space Sciences Advisors: Gilles Peltzer, Jonathan Aurnou
6/2012 – 9/2012	Undergraduate Research Intern United States Geological Survey (USGS) Menlo Park Advisor: Walter Mooney
EDUCATION	
2014 – 2019	California Institute of Technology PhD in Geology, <i>Mechanics of river avulsions on lowland river deltas</i> Defended October 21, 2019; Received at Graduation Ceremony June 12, 2020 Thesis Advisor: Michael Lamb
2010 – 2014	University of California, Los Angeles BS in Applied Geophysics, Departmental Highest Honors Undergraduate Research Advisors: Jonathan Aurnou, Gilles Peltzer

HONORS & AWARDS

2025 Grant Awarded: NSF GEO/EAR Water, Landscape, & Critical Zone Processes
Collaborative Research: Disentangling Subsidence - Integrated observations and
modeling of vertical land-surface dynamics in the Ganges-Brahmaputra Delta
Co-PI

2023-2025 Lamont Postdoctoral Fellowship in Earth, Environmental, and Climate Sciences Predicting coastal resilience & flood hazards on densely populated coastal zones in the twenty-first century Lamont-Doherty Earth Observatory, Columbia University 2023 Grant Awarded: NASA Commercial Smallsat Data Acquisition Program Conceptualization (50%) & Writing (50%) for River response to climate change: Insights from high-resolution remote sensing data in High-Mountain Asia Principal Investigators: Vamsi Ganti *Unable to serve as a PI as a Postdoctoral Scholar 2023 **Grant Awarded: NSF EAR-Climate** Conceptualization (33%) & Writing (33%) for NSF EAR-Climate: Global Survey of Multiscale River Mobility & its Response to Climate Change and Human Interference Principal Investigator: Vamsi Ganti (NSF EAR-2310740) *Unable to serve as a PI as a Postdoctoral Scholar 2016 - 2020**Graduate Fellowship in Sustainability Science** Resnick Sustainability Institute at the California Institute of Technology 2018 **Best Poster Award** Community Surface Dynamics Modeling System Meeting 2018 **Early Career Spotlight** American Geophysical Union Earth and Planetary Surface Processes (AGU EPSP) https://connect.agu.org/epsp/spotlight/april-2018 2015 George & Virginia Eaton Fellowship California Institute of Technology 2015 **Graduate Research Fellowship Honorable Mention** National Science Foundation 2014 John & Frances Handin Scholarship University of California, Los Angeles 2013 Clarence A. Hall Summer Field Scholarship University of California, Los Angeles 2012 **USGS Internship Certificate of Outstanding Achievement** United States Geological Survey, Menlo Park, CA

PUBLICATIONS

Research Mentees are denoted by *

In Preparation Chadwick AJ, Steckler S, Wilson CA, Rana MM, Akter S, Bhuiyan AH, Camargo SJ, Larochelle S, Mahmud SS, Tanvir AA, Ahmed Z, Mim A. Future projections of

compaction-induced subsidence on the Ganges-Brahmaputra Delta. In Preparation.

In Preparation Chadwick AJ, Greenberg E, Ganti V. Multi-thread planform diversity originates from

competition between migration and floodplain development on mid-channel bars. In

Preparation.

In Preparation	Chadwick AJ, Steckler S, Wilson CA, Rana MM, Akter S, Bhuiyan AH, Camargo SJ, Larochelle S, Mahmud SS, Tanvir AA, Ahmed Z, Mim A. A model for predicting subsidence hazards on deltas in the twenty-first century. In Preparation.
2025	Chadwick AJ , Greenberg E, Ganti V. River planforms originate from (im)balance between bank erosion and bar accretion. <i>Science</i> , 389(6756), 146-150. Selected for Science Cover Feature: https://www.science.org/toc/science/389/6756
2024	Greenberg E, Chadwick AJ , Li GK, & Ganti V. Quantifying channel mobility and floodplain reworking timescales across river planform morphologies. <i>Geophysical Research Letters</i> 51.12 (e2024GL108537).
2024	Wang Y, Limaye AB, & Chadwick AJ . Topography-based particle image velocimetry of braided channel initiation. <i>Water Resources Research</i> 60.4 (e2023WR035229).
2023	Greenberg E, Chadwick AJ , & Ganti V. A generalized area-based framework to quantify river mobility from remotely sensed imagery. <i>Journal of Geophysical Research: Earth Surface</i> 128 (e2023JF007189).
2023	Chadwick AJ , Greenberg E, & Ganti V. Remote sensing of riverbank migration using particle image velocimetry. <i>Journal of Geophysical Research: Earth Surface</i> 128 (e2023JF007177).
2023	Rowland JC, Schwenk JP, Shelef E, Muss J, Ahrens D, Stauffer S, Pilliouras A, Crosby B, Chadwick AJ , Douglas MM, Kemeny PC, Lamb MP, Li GK, & Vulis L. Scale-dependent influence of permafrost on riverbank erosion rates. <i>Journal of Geophysical Research: Earth Surface</i> 128 (e2023JF007101).
2023	Xu Z, Khan MR, Ahmed KM, Zahid A, Hariharan J, Passalacqua P, Steel E, Chadwick AJ , Paola C, Paldor A, & Michael HA. Predicting Subsurface Architecture from Surface Channel Networks in The Bengal Delta. <i>Journal of Geophysical Research: Earth Surface</i> 128 (e2022JF006775).
2023	Kemeny PC, Li GK, Douglas MM, Berelson W, Chadwick AJ , Dalleska NF, Lamb MP, Larsen W, Magyar JS, Rollins NE, Rowland J, Smith I, Torres MA, Webb SM, Fischer WW, & West AJ. Arctic Permafrost Thawing Enhances Sulfide Oxidation. <i>Global Biogeochemical Cycles</i> 37 (e2022GB007644).
2022	Chadwick AJ , Steele S*, Silvestre J*, & Lamb MP. More extensive land loss expected on coastal deltas due to rivers jumping course during sea-level rise. <i>Proceedings of the National Academy of Sciences</i> 119(31).
2022	Chadwick AJ , Steel E, Passalacqua P, & Paola C. Differential bank migration limits the lifespan and width of braided river threads. <i>Water Resources Research</i> 58(8).
2022	Chadwick AJ , Steele S*, Silvestre J*, & Lamb MP. Effect of sea-level change on river avulsions and stratigraphy for an experimental lowland delta. <i>Journal of Geophysical Research: Earth Surface</i> 127(7).
2022	Chadwick AJ , Steel E, Williams-Schaetzel RA*, Passalacqua P, & Paola C. Channel migration in experimental river networks mapped by particle image velocimetry. <i>Journal of Geophysical Research: Earth Surface</i> 127.
2022	Brooke S, Chadwick AJ , Silvestre J*, Lamb MP, Edmonds DA, & Ganti V. Where rivers jump course. <i>Science</i> 376(6596).

2022	Edmonds DA, Chadwick AJ , Lamb, MP, Lorenzo-Trueba J, Murray AB, Nardin W, Salter G, & Shaw JB. Morphodynamic Modeling of River-Dominated Deltas: A Review and Future Perspectives. in <i>Treatise on Geomorphology</i> 110–140.
2022	Steel E, Paola C, Chadwick AJ , Hariharan J, Passalacqua P, Xu Z, Michael HA, Brommecker H, & Hajek EA. Reconstructing subsurface sandbody connectivity from temporal evolution of surface networks. <i>Basin Research</i> 34, 1486–1506.
2022	Xu Z, Hariharan J, Passalacqua P, Steel E, Chadwick AJ , Paola C, Paldor A, & Michael HA. Effects of geologic setting on contaminant transport in deltaic aquifers. <i>Water Resources Research</i> 58.
2022	Hariharan J, Passalacqua P, Xu Z, Michael HA, Steel E, Chadwick AJ , Paola C, & Moodie AJ. Modeling the dynamic response of river deltas to sea-level rise acceleration. <i>Journal of Geophysical Research: Earth Surface</i> 127.
2022	Douglas MM, Li GK, Fischer WW, Rowland JC, Kemeny PC, West AJ, Schwenk J, Piliouras AP, Chadwick AJ , & Lamb MP. Organic carbon burial by river meandering partially offsets bank-erosion carbon fluxes in a discontinuous permafrost floodplain. <i>Earth Surface Dynamics</i> 10(3).
2021	Chadwick AJ & Lamb MP. Climate-change controls on river delta avulsion location and frequency. <i>Journal of Geophysical Research: Earth Surface</i> 126(6).
2021	Douglas MM, Lingappa UF, Lamb MP, Rowland JC, West AJ, Li G, Kemeny PC, Chadwick AJ , Piliouras AP, Schwenk J, & Fischer WW. Impact of river channel lateral migration on microbial communities across a discontinuous permafrost floodplain. <i>Applied and Environmental Microbiology</i> 87(20).
2020	Chadwick AJ , Lamb MP, Ganti V. Accelerated river avulsion frequency on lowland deltas due to sea-level rise. <i>Proceedings of the National Academy of Sciences</i> 117(30).
2020	Brooke S, Ganti V, Chadwick AJ , Lamb MP. Flood variability determines the location of lobe-scale avulsions on Deltas: Madagascar. <i>Geophysical Research Letters</i> 47(20).
2019	Chadwick AJ , Lamb MP, Moodie AJ, Parker G, Nittrouer J. Origin of a preferential avulsion node on lowland river deltas. <i>Geophysical Research Letters</i> 46(8).
2019	Ganti V, Lamb MP, Chadwick AJ . Autogenic erosional surfaces in fluvio-deltaic stratigraphy from floods, avulsions, and backwater hydrodynamics. <i>Journal of Sedimentary Research</i> 89(8).
2019	Moodie AJ, Nittrouer JA, Ma H, Carlson BN, Chadwick AJ , Lamb MP, Parker G. Modeling deltaic lobe-building cycles and channel avulsions for the Yellow River delta, China. <i>Journal of Geophysical Research: Earth Surface</i> 124(11).
2016	Ganti V, Chadwick AJ , Hassenruck-Gudipati HJ, Lamb MP. Avulsion cycles and their stratigraphic signature on an experimental backwater-controlled delta. <i>Journal of Geophysical Research: Earth Surface</i> 121(9).
2016	Ganti V, Chadwick AJ , Hassenruck-Gudipati HJ, Fuller BM, Lamb MP. Experimental river delta size set by multiple floods and backwater hydrodynamics. <i>Science Advances</i> 2(5).

Shaw JB, Ayoub F, Jones CE, Lamb MP, Holt B, Wagner RW, Coffey T, **Chadwick AJ**, Mohrig D. Airborne radar imaging of subaqueous channel evolution in Wax Lake Delta, Louisiana, USA. *Geophysical Research Letters* 43(10).

SELECTED CONFERENCE PROCEEDINGS

2025	Invited	Chadwick , AJ. River systems: their origins, evolution, & response to our rapidly changing world. Invited Talk, <i>Queens College Earth & Environmental Sciences Colloquium</i> , New York, NY.
2025	Invited	Chadwick , AJ. Steckler S, Wilson CA, Rana MM, Akter S, Bhuiyan AH, Camargo SJ, Larochelle S, Mahmud SS, Tanvir AA, Ahmed Z, Mim A. Predicting cascading flood hazards on coastal deltas in the 21 st century. Invited Talk, <i>GSA Connects 2025</i> , San Antonio, TX.
2025	Invited	Chadwick, AJ. River systems: their origins, evolution, & response to our rapidly changing world. Invited Talk, <i>University of California Los Angeles Geography Department Seminar</i> , Los Angeles, CA.
2025	Invited	Chadwick, AJ. River systems: their origins, evolution, & response to our rapidly changing world. Invited Talk, <i>University of Washington Department of Earth and Space Sciences Colloquium</i> , Seattle, WA.
2025		Chadwick AJ, Steckler S, Wilson CA, Rana MM, Akter S, Bhuiyan AH, Camargo SJ, Larochelle S, Mahmud SS, Tanvir AA, Ahmed Z, Mim A. Predicting cascading flood hazards on coastal deltas in the 21 st century. Invited Talk, <i>Lamont 75th Anniversary Mini-Symposium: Earth Hazards</i> , New York, NY.
2024		Chadwick AJ, Steckler S, Wilson CA, Rana MM, Akter S, Bhuiyan AH, Camargo SJ, Larochelle S, Mahmud SS, Tanvir AA, Ahmed Z, Mim A. Future projections of compaction-induced subsidence on the Ganges-Brahmaputra Delta. Poster Presentation, <i>American Geophysical Union Fall Meeting</i> , Washington D.C.
2024		Chadwick AJ, Greenberg E, Ganti V. Multi-thread planform diversity originates from competition between migration and floodplain development on mid-channel bars. Oral Presentation, <i>American Geophysical Union Fall Meeting</i> , Washington D.C.
2024	Invited	Chadwick, AJ. How do river deltas respond to sea-level rise? Invited Talk, <i>Vanderbilt Earth and Environmental Sciences Seminar</i> , Nashville, TN.
2024		Chadwick AJ, Larochelle S, Camargo SJ, Steckler MS. Predicting subsidence hazards on deltas in the 21 st century. Oral presentation, <i>Deltas 2024 Symposium: Coastal River Deltas in a Changing World.</i> LSU Center for River Studies, Baton Rouge, LA.
2024	Invited	Chadwick, AJ. River systems: their origins, evolution, & response to our rapidly changing world. Invited Talk, <i>University of California Los Angeles Earth, Planetary, and Space Sciences Department Colloquium,</i> Los Angeles, CA.
2023		JO-CREWSnet Team. Reinventing climate-change adaptation with the Jameel Observatory Climate Resilience Early Warning System Network (JO-CREWSnet). Highlight segment, 2023 United Nations Climate Change Conference (COP28), Expo City, Dubai.

2023 Chadwick AJ, Greenberg E, Ganti V. River channel patterns are driven by width (in)stability. Oral presentation, American Geophysical Union Fall Meeting, San Francisco, CA. 2023 Chadwick AJ, Greenberg E, Ganti V. Multi-thread channel morphologies driven by runaway widening. Oral presentation, Southern California Geobiology & Geomorphology Symposium, Santa Barbara, CA. 2022 Chadwick AJ, Steel E, Passalacqua P, Paola C. Differential bank migration limits the lifespan and width of braided river threads. Poster presentation, 4th Annual Southern California Geomorphology Symposium, Irvine, CA. 2021 Chadwick AJ, Steel E, Passalacqua P, Paola C. Differential bank migration limits the lifespan and width of braided river threads. Poster presentation, American Geophysical Union Fall Meeting, New Orleans, LA. 2019 Chadwick AJ, Lamb MP. Climate-change controls on river delta avulsion location and frequency. Oral presentation, American Geophysical Union Fall Meeting, San Francisco, CA. 2018 Chadwick AJ, Silvestre J, Steele S, Lamb MP. How well is sea-level fall preserved in fluvio-deltaic stratigraphy? Oral presentation, American Geophysical Union Fall Meeting, Washington DC. 2018 Chadwick AJ, Steele S, Silvestre J, Lamb MP. How does river-channel shifting mediate land sustainability on drowning river deltas? Oral presentation, Resnick Sustainability Institute Seminar Day, Pasadena, CA. 2018 Chadwick AJ, Lamb MP. Prediction the location of avulsion hazards in the face of changing flood regimes. Poster presentation, Community Surface Dynamics Modeling System (CSDMS) Meeting, Boulder, CO. 2017 Chadwick AJ, Steele S, Silvestre J, Lamb MP. The role of channel avulsion in mediating transient land loss on drowning river deltas. Poster presentation, American Geophysical Union Fall Meeting, New Orleans, LA. 2017 Chadwick AJ, Lamb MP. The roles of backwater and relative sea-level rise in setting deltaic avulsion frequency. Oral presentation, 2nd International Science Workshop of Morphodynamics and Socioeconomic Sustainability of Large River Deltas, Qingdao, China. 2017 Chadwick AJ, Lamb MP. The roles of backwater and relative sea-level rise in setting deltaic avulsion frequency. Oral presentation, Japan Geophysical Union and American Geophysical Union Joint Meeting (AGU-JpGU), Chiba, Japan. 2016 Chadwick AJ, Ganti V, Hassenruck-Gudipati HJ, Lamb MP. How does delta shoreline sinuosity respond to changes in river discharge variability? Poster presentation, Community Surface Dynamics Modeling System (CSDMS) Meeting, Boulder, CO. 2016 Chadwick AJ, Lamb MP. The roles of sea-level rise and hydrodynamic backwater in setting deltaic avulsion patterns. Poster presentation, American Geophysical Union Fall Meeting, San Francisco, CA.

2015	Chadwick AJ , Ganti V, Hassenruck-Gudipati HJ, Lamb MP. The role of backwater hydraulics in mediating shoreline rugosity. Oral presentation, <i>American Geophysical Union Fall Meeting</i> , San Francisco, CA.
2014	Chadwick AJ , Ganti V, Hassenruck-Gudipati HJ, Lamb MP. Experimental investigation of the morphodynamic controls on delta-lobe formation and shoreline rugosity. Poster presentation, <i>American Geophysical Union Fall Meeting</i> , San Francisco, CA.
2013	Chadwick AJ, Capaldi T, Aurnou J. Developing interactive classroom projects: in-

class robot flyby of an endoplanet. Poster presentation, *American Geophysical Union Fall Meeting*, San Francisco, CA.

COMMUNITY LEADERSHIP & AFFILIATIONS

2024 – 2025	Postdoc Representative, Lamont 75 th Anniv. Planning Committee Lamont-Doherty Earth Observatory, Columbia University
2024 – Current	Standing Member, Academic and Research Community Success (ARCS) Committee Lamont-Doherty Earth Observatory, Columbia University
2024	Lead Organizer, <i>Lamont Postdoc Symposium</i> Hosted by: Lamont-Doherty Earth Observatory, Columbia University
2023	Lead Organizer, Southern California Geobiology & Geomorphology Symposium Hosted by: UC Santa Barbara
2022	Member, Climate-Change Business Development Team Exponent Engineering and Scientific Consulting
2019 – 2020	Graduate Student Representative & Organizer of Early Career Spotlight American Geophysical Union Earth and Planetary Surface Processes (AGU EPSP)
2018	Lead Organizer, Ist Annual Southern California Geomorphology Symposium Hosted by: California Institute of Technology
2017 – 2018	Session Convener, Sediment Dynamics Across Landscapes American Geophysical Union Fall Meeting Earth and Planetary Surface Processes Section
2017 – 2018	Seminar Series Organizer, <i>Geoclub</i> GeoClub Seminar Series, California Institute of Technology
2016 – Current	Peer Reviewer Geology Science Advances Journal of Sedimentology Water Resources Research Geophysical Resesarch Letters The Geological Society Special Publications Journal of Geophysical Research: Earth Surface Remote Sensing

2014 – Current Member

American Geophysical Union (AGU)

Community Surface Dynamics Modeling System (CSDMS)

Sediment Experimentalist Network (SEN)

TEACHING & MENTORSHIP

CIIIIVU W 1911	ENTURSHIP
2021 – 2024	Graduate Research Co-Mentor Mentee: Geila Volga Uzeda Orellana. <i>Now at GEO Morphix</i> . Primary Advisor: Elisabeth Steel Geological Sciences & Geological Engineering MSc program, Queens University
2022	Teacher & Course Developer GEOG288VG Special Topics in Geography: Quantifying Global River Kinematics from Remote Sensing Observations UC Santa Barbara Department of Geography
2020 – 2022	Undergraduate Research Mentor Mentee: Rashel Williams-Schaetzel. <i>Now at Minnesota Health Fairview</i> . University of Minnesota, St. Anthony Falls Laboratory
2019	Teaching Assistant Ge121C Advanced Field Geology: <i>The Grand Canyon & Wheeler Ridge</i> California Institute of Technology SP 2018-19
2018	Climate-School Seminar Series for Undergraduates Volunteer Resnick Sustainability Institute at Caltech Caltech Summer Undergraduate Research Fellowship (SURF)
2017 – 2020	Undergraduate Research Mentor Mentee: Sarah Steele. <i>Now at Harvard University</i> . Caltech Summer Undergraduate Research Fellowship
2017 – 2018	Undergraduate Research Mentor Mentee: Jose Silvestre. Now at Tulane University. UNAVCO Research Experiences in Solid Earth Sciences for Students (RESESS) Caltech WAVE Undergraduate Research Fellowship
2017	Teaching Assistant Ge121A Advanced Field Geology: <i>The Role of Vegetation in Shaping Rivers</i> California Institute of Technology FA 2016-17
2017	Teaching Assistant Ge126 Special Topics in Geomorphology: <i>River Morphodynamics</i> California Institute of Technology SP 2016-17
2017	Teaching Assistant Ge121B Advanced Field Geology: <i>Southeast Death Valley</i> California Institute of Technology WI 2016-17
2016	Teaching Assistant Ge 120A Introduction to Field Geology: Rainbow Basin & the Mitchell Range

California Institute of Technology SP 2015-16

2015 – 2017 Undergraduate Research Mentor

Mentee: Kirby Sikes. *Now at the Massachusetts Public Interest Research Group*. Caltech Summer Undergraduate Research Fellowship (SURF)

2013 Course Developer & Reader

ESS71: Introduction to Computing For Geo- and Space Scientists

University of California, Los Angeles SP 2012-13

Summary of Quantitative Teaching Evaluations	Score	Department Average Score
Overall teaching effectiveness:	4.96 / 5	4.63 / 5
Provided helpful comments on assignments, papers, or exams:	5.00 / 5	4.48 / 5
Answered questions clearly and concisely:	4.96 / 5	4.64 / 5
Was well prepared for section, office hours, or lab:	4.79 / 5	4.64 / 5
Presented material clearly in section or lab:	5.00 / 5	4.69 / 5

Sample Comments from Teaching Evaluations

Austin is super knowledgeable, thoughtful, and curious. He's a mellow dude, but his enthusiasm for his subject really comes through. And he was always accessible for questions and concerns. A delight to work with.

For Advanced Field Geology, Caltech Ge121A Fall 2018

Austin was a really patient and helpful TA. He was super helpful out in the field. He always made me feel like my questions were well founded even when I felt sort of lost with the whole field geo thing being new. It was really important to have a good TA for this class and he more than fulfilled that role!

For Introduction to Field Geology, Caltech Ge120A Spring 2016

OUTREACH

2025	Press feature for <i>The Hindu</i> Geographers uncover why some rivers stay single and others split https://www.thehindu.com/sci-tech/energy-and-environment/geographers-uncover-why-some-rivers-stay-single-while-others-split/article69999220.ece
2025	Video interview for AAAS Science Magazine Shaping Rivers https://www.science.org/content/article/how-do-rivers-flow-split-and-change
2025	Press feature for <i>USA Today How do rivers work? Scientists think they've solved a 'longstanding mystery.'</i> https://www.usatoday.com/story/news/nation/2025/07/15/mystery-about-rivers-has-anew-answer/84604406007/
2025	Press feature for State of the Planet: News from the Columbia Climate School Rivers choose their path based on erosion — a discovery that could transform flood planning

	erosion-a-discovery-that-could-transform-flood-planning/
2025	Press feature for <i>The Current: UC Santa Barbara News</i> Rivers choose their path based on erosion — a discovery that could transform flood planning and restoration https://news.ucsb.edu/2025/021948/rivers-choose-their-path-based-erosion-discovery-could-transform-flood-planning-and
2023-2024	Presenter & Coordinator, 2023 Lamont-Doherty Earth Observatory Open House Exhibit: Sea-level Rise and Tectonics in Bangladesh https://openhouse.ldeo.columbia.edu/content/exhibits
2024	Coordinator, Earth Observations: Conversations with Lamont Scientists Monthly discussion-focused Q&A series connecting scientists with public audience
2023	Science consultant for press feature in Eos: Science News by AGU Forecasting Earthquake-Induced Floods https://eos.org/articles/forecasting-earthquake-induced-floods
2023	High-School Outreach Developer Short Course: <i>The Secret Lives of Moving Rivers</i> UC Santa Barbara School for Scientific Thought
2022	Press feature for Eos: Science News by AGU Estimating Land Loss in River Deltas https://eos.org/articles/estimating-land-loss-in-river-deltas
2022	Press feature for Hakai Magazine: Coastal science and societies River Deltas are Running Out of Land https://hakaimagazine.com/news/river-deltas-are-running-out-of-land/
2022	Press feature for <i>The Current: UC Santa Barbara News</i> Where Rivers Jump Course https://www.news.ucsb.edu/2022/020645/where-rivers-jump-course
2020	Press feature for the <i>Climate Connections</i> radio program Yale Center for Environmental Communication
2020	Press feature for <i>The Current: UC Santa Barbara News Jumping Course</i> https://www.news.ucsb.edu/2020/019953/jumping-course
2020	Press feature for Caltech News Sea-Level Rise Could Make Rivers More Likely To Jump Course https://www.caltech.edu/about/news/sea-level-rise-could-make-rivers-more-likely-jump-course
2020	Press feature for NSF Research News Sea level rise could make rivers more likely to jump course https://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=301071
2018	Press Feature on BBC World Service Television and Radio News A laboratory dedicated to understanding how rivers function in nature https://www.bbc.com/arabic/tv-and-radio-45527141

https://news.climate.columbia.edu/2025/07/10/rivers-choose-their-path-based-on-definition and the statement of the columbia of the columbia

2013 - 2014Public Outreach Coordinator & Organization Co-Founder

Bruin Geological Survey (BGS)

University of California, Los Angeles

TECHNICAL SKILLS

Field & laboratory techniques

- Particle image velocimetry
- Laboratory flume engineering
- Hydroacoustic profiling (Massa, ADCP)
- Laser altimetry (Keyence, LRF)
- Shallow subsurface surveys (RSET, MH)
- GPS surveys (GNSS, Differential, RTK)
- UAV surveys (Airborne, Aquatic)
- Sediment transport surveys
- Geologic mapping
- Geomorphic Mapping

Consulting Experience

- Flood risk assessment
- Erosion risk assessment
- Floodplain restoration
- Dam & levee management
- Evaluation of surface-water and sediment contamination risks
- Groundwater extraction and water-table drawdown

Programming & software

- MATLAB
- **PIVlab**
- Python

- GeoClaw
- **QGIS**
- **ÈNVI**
- LabVIEW

- Adobe Illustrator
- Adobe Photoshop
- Adobe Premier Pro
- Adobe Animate