

Jason M. Post, PhD

Department of History – Arkansas State University
HSS 4027 – jpost@astate.edu

EDUCATION

- PhD. Geosciences (Geography Concentration)** Conferred: December 2017
Texas Tech University
Dissertation: *Human Interactions with the Aquatic Ecosystems of the Los Angeles River: The Creation of the LA River as a Human Landscape and the Effect of Exotic Fish on Human Activity*
- Graduate Certificate in Geographic Information Science and Technology** Completed: December 2015
Texas Tech University
- M.S. Geography** Conferred: May 2014
Texas Tech University
Thesis: *Spatial Environmental Inequality in Lubbock, Texas: Applications of GIS and Spatial Analysis in Identifying and Quantifying Environmental Justice*
- B.S. Environmental Science (Conservation Biology Minor)** Conferred: August 2011
University of California Los Angeles
Capstone Project: *Reducing Pollution Loading in Storm Runoff Through Best Management Practices Using GIS Simulations and Spatial Modeling*
- A.S. Biology and Biochemistry** Conferred: May 2009
Marymount California University

ACADEMIC POSITIONS

- Instructor of Geography** August 2023 – Present
Department of History
Arkansas State University – Jonesboro, AR
*Current full-time appointment
- Adjunct Assistant Professor – Affiliate Faculty** March 2023 – Present
Department of Geosciences
Texas Tech University – Lubbock, TX
- Adjunct Faculty – Geography** January 2023 – Present
Department of Geology and Geography
Pima Community College – Tucson, AZ
- Instructor of Geographic Information Systems** July 2019 – August 2023
Tohono O’odham Community College - Sells, AZ
- Adjunct Professor of Geography** August 2020 – December 2021
Heilongjiang Institute of Technology – College of International Education (Harbin, China) - Online
- Adjunct Professor of Environmental Stewardship** April 2019 – April 2021
Brigham Young University Idaho - Online

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Assistant Professor of Geographic Information Technology

Navajo Technical University - Crownpoint, NM

January 2018 - May 2019

Lecturer of Spatial Sciences

University of Southern California - Los Angeles, CA

January 2016 – January 2017

TEACHING EXPERIENCE

Arkansas State University

GEOG 2613 – Introduction to Geography

GEOG 3603 – World Regional Geography

Tohono O’odham Community College

GEO 101 - Physical Geography: Weather and Climate (with lab)

GEO 103 – Cultural Geography

GEO 170 – Introduction to Geospatial Technology*

GEO 205 – Geography of Borderlands†

GEO 217 – Introduction to Global Positioning Systems†

GEO 267 – Introduction to Geographic Information Systems†

GEO 270 – Remote Sensing

GEO 277 – Advanced Geographic Information Systems†

GEO 280 – GIS Applications

GEO 285 – GIS Internship

GEO 290 – Unmanned Aerial Systems

SCI 290 – Special Topics in Science: Field Ecology

Pima Community College

GEO 101IN – Physical Geography: Weather and Climate (with lab)

Heilongjiang Institute of Technology

World Regional Geography*

Urban Geography*

Brigham Young University – Idaho

GESCI 203 – Environmental Stewardship*

Navajo Technical University

GEOG 100 – World Regional Geography

GIT 105 – Fundamentals of Cartography*

GIT 110 – Geographic Information Systems I

GIT 111 – Geographic Information Systems II

GIT 202 – Remote Sensing

GIT 207 – GIS Software Applications

GIT 210 – Service-Learning Project

GIT 295 – Field Methods

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University of Southern California

SSCI 265 – Water Planet/Lab

SSCI 301 – Maps and Spatial Reasoning

SSCI 382 – Principles of GIS

*Denotes course taught online as the primary modality of instruction

†Denotes course offered in both traditional face-to-face and online modalities

WRITTEN WORKS AND PUBLICATIONS

Published

Drill, S., Post, J.M.*, Aguilar, A., and R. Dagit. 2023. Ichthyofauna of the Los Angeles River. *Cities and the Environment* 16:1.

Post, J.M.*, R.J. Reasch and E.S. Bailey. 2022. Detection of Trematodes from the Host Exotic Aquatic Snail *Melanooides tuberculata* in an Urban Stormwater System. *Zoonotic Diseases* 2:4.

Drill, S., and J.M. Post*. 2022. Urban Aquatic Ecology, Fishing and Community Connection on The Los Angeles River – Making it Just Blue Enough. In Yang, Y. and A. Taufen (eds.) *Routledge Handbook for Sustainable Cities and Landscapes in the Pacific Rim*

Post, J.M.*, and P.L. Carter. 2021. Unnatural Nature: Anglers Reimaginings of the Los Angeles River as Parkland. *Geographical Review* 112:2.

Post, J.M.* 2019. Book Review: Tribal GIS (ESRI Press 2017). *Tribal College: Journal of American Indian Higher Education* 30:4.

Post, J.M.*, Carter, P.L., and C. Sorrensen. 2018. Spatial Environmental Inequality in Lubbock, Texas. *Current Research Journal of Social Sciences and Humanities* 1:1.

In Process

Post, J.M.* and R.J. Reasch. 2023. *A Novel Exotic Occurrence of the Red-Rimmed Melania (Melanooides tuberculata) in a Restored Urban Stream*. Being prepared for journal submission.

Post, J.M.*, R.J. Reasch and E.S. Bailey. 2023. *Pathogenic trematode infection of Red Swamp Crayfish (Procambarus clarkii): Implications for urban water resource management and species invasions*. Being prepared for journal submission.

Post, J.M.*, R.J. Reasch and E.S. Bailey. 2023. *First occurrence of Steganoderma eamiqtrema in a freshwater invertebrate: Possible transmission from marine ecosystems through coastal wetland avian fauna*. Being prepared for journal submission.

Post, J.M.* 2023. *Geospatial Technology and Techniques for Mapping Fish Habitats on the Los Angeles River: Implications for Restoration*. Being prepared for journal submission.

Post, J.M.* 2023. *Fieldwork Hazards in Urban Rivers: Lessons Learned from the Los Angeles River*. Being prepared for journal submission.

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FUNDED PROJECTS

Weather Balloons, Atmospheric Science, and Field Research Opportunities: Capacity Building and STEM Enrichment for a Tribal College

NASA – Arizona Space Grant Consortium

\$6,000 funded January 2023: Principal Investigator

Funded weather balloons, sensors, telemetry equipment, and environmental testing kits in support of both student field research experiences and STEM capacity building.

Bridging the Digital Divide: Emergency Support for Geography at Tribal Colleges, HUBCs and other MSIs

American Association of Geographers - COVID-19 Task Force

\$265,500 funded June 2020: Co-authored with Dr. Emily Ting Yeh, President, AAG, Professor and Chair of Geography, University of Colorado Boulder.

Funded emergency aid program for students and faculty at tribal colleges and other minority serving institutions. Program provides laptop computers, ESRI software, and mobile WIFI hotspots to address technology inequalities in vulnerable minority communities struggling to continue their education in the online environment during the COVID 19 pandemic.

Providing a UAS flight training and agricultural remote sensing training program for the Tohono O'odham Nation

American Indian College Fund - Van Vlack Family Endowment Grant

\$5,500 funded May 2020: Principal Investigator

Funded new instructional equipment including a DJI Phantom 4 Quadcopter and a Parrot Sequoia+ Multispectral sensor. A web-based workshop was facilitated as part of this project.

Assessing the Effectiveness of Reforestation Efforts in the Navajo Forest, Chuska Mountains – American Indian College Fund - Research Experience for Undergraduates Grant

\$2,500 funded March 2018: Principal Investigator

Funded a student research experience project focusing on environmental sciences as a tool of community empowerment. Additionally, funded new equipment, GNSS receivers, and covered travel expenses to take students into the field.

Bathymetric Modelling of the Human Hydrologic Features of the Los Angeles River

USC Dornsife College of Arts and Sciences - Student Opportunities in Academic Research Grant

\$1,000 funded Fall 2016: Co-Principal Investigator

Funded a paid undergraduate research assistant and necessary equipment. This project incorporates the construction of a manned, self-propelled watercraft for acquisition of DI (down imaging) sonar bathymetric modeling.

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IN-PROGRESS PROPOSALS

National Science Foundation Antarctica Social Science/Writers and Artists Program
Urban geography of Antarctica: Social dimensions and spatial patterns as determined by an extreme human-environment interaction
Principal Investigator. Being prepared for submission.

CONFERENCE PRESENTATIONS

Post, J.M. and R. J. Reasch. *Current Status and Distribution of the Exotic Aquatic Snail *Melanoides tuberculata* in California: Implications for Ecosystem and Public Health*. Presented at the 2023 American Association of Geographers Annual Meeting in Denver, March 2023

Drill, S., Post, J.M., Aguilar, A., and R. Dagit. *Ichthyofauna of the Middle and Lower Los Angeles River*. Presented at the 2023 California-Nevada Chapter - American Fisheries Society Meeting in Long Beach, March 2023

Post, J.M. *Geographies of Citizen Science: Data, Participation, Access, and Freedom in Conflict Zones*. Presented at the 2022 American Association of Geographers Annual Meeting in New York, February 2022

Post, J.M. and S. Drill. *Making the Los Angeles River “Just Blue Enough”: Effectively Balancing Urban Aquatic Ecology, Restoration, and Equitable Use*. Presented at the 2021 Southern California Academy of Sciences Annual Meeting, May 2021

Post, J.M. *Foraging for Fish: Mapping Urban Fishery Resources to Help Combat Food Insecurity Among Homeless Populations in Los Angeles County*. Presented at the 2021 American Association of Geographers Annual Meeting in Seattle, April 2021

Reasch, R. and J.M. Post *Storm Drains and Snails: How Ecological Restoration and Park Aesthetics Clash in Playa Vista*. Presented at the 2021 American Association of Geographers Annual Meeting in Seattle, April 2021

Post, J.M. *Indigenous GIS: Special Considerations for Developing and Implementing Decolonized Geospatial Technology Curricula at Tribal Colleges and Universities (TCUs)* Presented at the 2020 American Association of Geographers Annual Meeting in Denver, April 2020.

Post, J.M. *Open-Source GIS as a Tool of Empowerment for Diné Students: A GIS Service-Learning Curriculum Case Study from a Tribal College*. Presented at the National Tribal GIS Conference in Albuquerque, November 2018

Post, J.M. and P.L. Carter. *Man, and Exotic Fish: Incorporating YouTube Videos and Citizen Science Data to Explore Spatial and Demographic Patterns in Urban Fishermen Attitude and Behavior with Respect to Exotic and Invasive Species on the LA River*. Presented at the 20th International Conference on Aquatic Invasive Species in Fort Lauderdale, October 2017

Post, J.M. and P.L. Carter. *Forbidden Fishing on the Los Angeles River: Querying Spatial and Demographic Patterns of Urban Fishing Behavior Using YouTube Videos*. Presented at the 2017 American Association of Geographers Annual Meeting in Boston, April 2017

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Post, J.M. *The Design, Acquisition, Processing and Analysis of Side Imaging Sonar for Urban Rivers: An Exploration with Unmanned Aquatic Vehicles*. Presented at the 2016 American Association of Geographers Annual Meeting in San Francisco, April 2016

Post, J.M. *Environment, Site, and (in)Justice: An Examination of the location of Environmental Protection Agency (EPA) Hazard Sites in Texas*. Presented at the 2015 Southwest Regional American Association of Geographers Meeting in San Antonio, November 2015

Post, J.M. *The human aspects of the invasive aquatic species problem: The significance of cultural, socio-economic, recreation and policy variables*. Presented at the 2015 American Association of Geographers Annual Meeting in Chicago, April 2015

Post, J.M. *Mapping environmental justice issues in Lubbock through time: A mixed-methods historical perspective*. Presented at the 2014 Southwest Regional American Association of Geographers Meeting in Albuquerque, October 2014

Post, J.M. and P.L. Carter. *Spatial Environmental Inequality in Lubbock, Texas*
Presented at the 2014 American Association of Geographers Meeting Annual Meeting, Tampa, April 2014

ORGANIZED CONFERENCE SESSIONS

Session Chair and Organizer – *Indigenous Voices and Geographic Perspectives* – Paper Session, 2023 American Association of Geographers Annual Meeting, Denver

Session Primary Organizer – *The Variety of Geography: Diverse Showcase of Research* – Paper Session, 2020 American Association of Geographers Annual Meeting, Denver (Virtual)

Session Chair and Organizer – *Environmental Justice Methodologies* – Paper Session, 2015 American Association of Geographers Annual Meeting, Chicago
Sponsored by the Cultural and Political Ecology Specialty Group (CAPE) and the Graduate Student Affinity Group (GSAAG)

ACADEMIC SERVICE

Member, Member Engagement – Community College Outreach Sub-Committee, American Association of Geographers JEDI (Justice, Equity, Diversity, Inclusion) Task Force
2023 – Present

Reviewer, *Earth Sciences (EARTH)* ISSN: 2328-5982
2022 – Present

Member, Arizona Transfer Task Force (ATF): Geography
2019 – Present

Member, Bridging the Digital Divide Steering Committee, American Association of Geographers
2020 – Present

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Member, Department Sub-Committee, American Association of Geographers
COVID-19 Task Force
2020 – 2021

INSTITUTIONAL SERVICE

Chair, Tohono O’odham Community College Course GIS Adjunct Faculty Hiring Committee
2023

Chair, Tohono O’odham Community College Course Evaluation Redesign Committee
2022 – 2023

Chair, Tohono O’odham Community College Faculty Pay Scale Revision Committee
2022 – 2022

Member, Tohono O’odham Community College Social Science/Social Work Faculty Hiring
Committee
2022 – 2022

Member, Tohono O’odham Nation GIS Users Working Group
2019 – 2023

Member, Tohono O’odham Community College Curriculum Committee
2020 – 2023

Chair, Navajo Technical University Academic Excellence Committee
2018 – 2019

Chair, Navajo Technical University Environmental Health and Safety Committee
2018 – 2019

Environmental Health and Safety Officer, Navajo Technical University
2018 – 2019

Member, Navajo Technical University Program Review Committee
2018 – 2019

Member, Navajo Technical University Institutional Review Board
2018 – 2019

- I served on the Tohono O’odham Nation GIS Users Working Group as a technical advisor for implementing GIS projects, policies, and programs on the Nation. I work as a liaison between the college and tribal agency leadership.
- I developed the curriculum for two Associate degree programs in GIS (transfer option and direct employment option) as well as a professional certificate program in GIS for Tohono O’odham Community College. New courses include an advanced GIS course, a remote sensing course, and a UAS course, as well as an internship program for GIS students seeking real-world experience. I currently serve as academic advisor and program director for TOCC GIS programs.

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- I authored the Environmental Health and Safety policy for Navajo Technical University, overseeing laboratory, shop, and biomedical safety. Additionally, I have also prepared a draft policy for unmanned vehicle use (UAS) and aquatic fieldwork safety/watercraft safety at NTU.
- I developed two new courses in my first year at Navajo Technical University: a field methods summer course (GIT 295) and a world regional geography course (GIT 100) as part of the general education curriculum.
- I served as the academic advisor and program director for the AAS GIT degree and certificate programs. I authored all course materials, program objectives, syllabi, lectures, exams, and assignments used in the GIT program at Navajo Technical University. I completely rebuilt the program from scratch. Enrollment doubled and 7 students graduated in the first year. I was also responsible for program and course assessment.

GUEST LECTURES AND INVITED TALKS

Research in Human-Environment Interactions – Invited Lecture for Geography Graduate Research Methods Course, Texas Tech University, November 2022

Geographic Information Systems in Conservation Biology and Environmental Science – Invited Guest Lecture, 2021 Summer Science Institute, Tohono O’odham Community College, June 2021

Urban Geography of Lubbock, Texas: A Tour – Invited Field Lecture for GEOG 3351 Urban Geography, Texas Tech University, April 2017 and April 2019

Graduate Fieldwork in Geography – Invited Lecture for Geography Graduate Research Methods Course, Texas Tech University, May 2017

The Los Angeles River – Invited Guest Lecture for SSCI 265 The Water Planet, University of Southern California, October 2016

Side Imaging Sonar and Habitat Mapping on the Los Angeles River – Lecture for SSCI 165, Sustainability Science in the City, University of Southern California, April 2016

Fieldwork in Geography: Methods, Planning and Safety – Lecture for GEOG 4300, Senior Capstone Class, Texas Tech University, April 2015

LiDAR Remote Sensing: Principles and Applications – Lecture for GEOG 3301, Remote Sensing of the Environment, Texas Tech University, November 2014

Regional Geography of Russia and the Former Soviet Union, Lecture for GEOG 2351, Regional Geography of the World, Summer II, Texas Tech University, August 2013

Adaptations of Cave Fishes, Animal Ecophysiology Graduate Student Lecture, Dept. of Natural Resources Management, Texas Tech University, November 2011

Success in Undergraduate Research and Transfer Admissions to STEM Undergraduate Programs: Presentation to the Senior Biology Class, Marymount California University, June 2010

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UNDERGRADUATE RESEARCH ASSISTANTS ADVISED

Dionne Lopez, Tohono O’odham Community College, Fall 2022 and Spring 2023
Talia Apkaw, Tohono O’odham Community College, Spring 2023
Erica Kleinman, Tohono O’odham Community College, Summer 2022
Rachael Reasch, University of Arizona, Spring and Fall 2020
Arlyssia Sells, Navajo Technical University, Summer 2018
Norvina Charleston, Navajo Technical University, Spring 2018
Zachary Manta, USC SSI SOAR Research Undergraduate, Fall 2016
Michael Carlisle, TTU Geography Undergraduate, Fall and Spring 2016
Cedric Kudowor, TTU Geography Undergraduate, Spring and Summer 2015
Graham Rogers, TTU Geography Undergraduate, Summer 2015

GRADUATE RESEARCH ASSISTANTS ADVISED

Rachael Reasch, Texas Tech University Health Sciences Center, MPH Applied Practical Experience Mentor, 2021-2022

NEWS AND MEDIA APPEARANCES

- KOHN 91.9 FM (Sells, AZ) KOHH 90.7 FM (San Lucy, AZ) KOHF 101.1 FM (Florence, AZ) KWAK 102.5 FM (San Xavier/Tucson AZ). 5 January 2023. *Interview with Dr. Jason Post, TOCC GIS Opportunities*. Em Ma:cidag Wui – The Path to Tohono O’odham Community College Radio Show
- High Country News. 20 April 2021. *The Los Angeles River’s Overlooked Anglers: Unhoused Angelenos use the urban river as a source of sustenance, but a proposal to revitalize the waterway could push them out*.
<https://www.hcn.org/issues/53.5/south-people-places-the-los-angeles-rivers-overlooked-anglers>
- KOHN 91.9 FM (Sells, AZ) KOHH 90.7 FM (San Lucy, AZ) KOHF 101.1 FM (Florence, AZ) KWAK 102.5 FM (San Xavier/Tucson AZ). 25 February 2020. *Interview with Dr. Jason Post, TOCC GEO:SMART Grant and GIS for the Tohono O’odham Nation*. Em Ma:cidag Wui – Tohono O’odham Community College Radio Show.
- Lubbock Avalanche Journal. 8 December 2018. *In North, East Lubbock citizens hope answers to health concerns go beyond ‘Plan Lubbock 2040*.
<https://www.lubbockonline.com/news/20181208/in-north-east-lubbock-citizens-hope-answers-to-health-concerns-go-beyond-plan-lubbock-2040>
- UCLA IOES Profile. 13 April 2018. *Environmental science without borders*
<https://www.ioes.ucla.edu/article/environmental-science-without-borders/>

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CONSULTING EXPERIENCE

Lead Consultant, JP and Co. Geospatial and Environmental Consulting
2017- Present

- Customer demographic analysis, identification of potential markets, and quantification of total addressable market, Private Client
- Market research and enterprise geospatial intelligence, Augusta, GA, Club Car Inc.
- Market research and demographic analysis for low-speed vehicle rentals, Gulf Shores, AL, Club Car Inc.
- Infrastructure mapping for JL Bar Ranch and Resort, Sonora, Texas

AFFILIATIONS AND MEMBERSHIPS

American Association of Geographers
American Geographical Society
Royal Geographical Society (with Institute of British Geographers)
Sigma Xi, Scientific Research Society
North American Native Fishes Association
Tribal GIS – National Tribal GIS Support Center
Gamma Theta Upsilon, International Geographic Honor Society

LICENSES AND CERTIFICATIONS

- Remote Pilot with Small Unmanned Aerial Systems Rating (sUAS) – FAA Part 107
- NWCG Firefighter Type II (Wildland) – Sierra Blanca Wildland Fire Academy
- NFPA Level II Flood and Swiftwater Rescue Technician – Specialized Rescue Inc.
- Open Water Diver – PADI

HONORS, AWARDS AND RECOGNITION

- Fellow, Royal Geographical Society
- Texas Tech University Graduate School Cash Family Endowed Graduate Fellowship
- First Place Outstanding Thesis Award (2013-2014) – Texas Tech University Graduate School
- First Place Presentation, Economics, and the Environment Section – Texas Tech University Arts and Humanities Graduate Research Conference
- Gamma Theta Upsilon, Kappa Chi Chapter Annual Award for Excellence in Geography (2013-2014)
- UCLA Commencement Chancellor's Volunteer Service Award, 2011
- Marymount California University Distinguished Alumni of the Month, June 2010 and October 2011

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TECHNICAL COMPETENCIES

- Geographic Information Systems (ArcGIS Pro, ArcGIS Desktop, and QGIS)
- Spatial analysis and spatial statistics
- Statistical software and programming (R, SAS, MatLab, GeoDa)
- Cartographic design
- Aerial mapping and imagery acquisition
- UAS operations and mission planning
- Remote sensing, image processing, and interpretation
- LiDAR and Digital Surface Model processing
- Design and construction of UAS and remotely operated boats
- Bathymetric modeling and hydrographic surveys
- Acquisition, processing and interpretation of side imaging (SI) sonar data
- GNSS data collection (including RTK and DGPS)
- Surveying and field methods
- Fieldwork planning and logistics
- Species distribution modeling
- Habitat mapping
- Environmental monitoring and assessment
- Fish assemblage sampling
- Evaluating issues of environmental justice
- Citizen science and volunteered geographic information
- Survey design and qualitative methods
- Cultural demography and field interview methods
- Human subjects research and institutional review boards
- Qualitative research methods
- Qualitative analysis of social media posts and YouTube videos
- Online instructional and learning management systems (Blackboard, Canvas, D2L, Moodle)
- Hybrid and mixed-media course development
- Academic advising
- Curriculum design
- Course development and assessment
- Academic program development and assessment
- Program budgeting and administration
- Program marketing and recruiting
- Community engagement
- Institutional diversity and education of diverse student populations
- Indigenous education models
- Business market intelligence
- Site suitability modelling
- GIS for Fire, EMS, HAZMAT, and emergency response
- Water quality monitoring
- DNA extraction of environmental samples and conventional PCR
- NSF grant proposal writing and submission (Fastlane and Research.gov)