J. Michael 'Mike' Johnson

https://mikejohnson51.github.io |
 jmj00@ucsb.edu

EDUCATION:

2015 - Present University of California Santa Barbara (UCSB)

>PhD Candidate in Geography (passed written exams)

2010 - 2015 California Polytechnic State University, San Luis Obispo, CA

>BS Anthropology & Geography Cum Laude

Minors (1) Water Science (Watershed Management Emphasis) (2) Geographic Information Systems for Agriculture (3) Statistics (4) Environmental Studies (5) Economics

AWARDS, FELLOWSHIPS, AND GRANTS:

2018	Travel Grant (AGU)	Graduate Student Association (\$200)
2018	Summer Research Grant	UCSB Geography (\$2,400)
2018	COMET Partners Grant	UCAR (\$15,000)
2017	Seed Grant	UCGHI Planetary Health Center (\$10,000)
2017	Travel Scholarship (AGU)	Dangermond Fund (\$800)
2017	National Water Center Course Coordinator	CUAHSI (\$15,000)
2017	Travel Grant (WRF-Hydro Training)	CUAHSI (\$500)
2016	Travel Grant (HAZUS Conference)	Dangermond Fund (\$700)
2015-2016	Disciplines Fellowship	University of California Regents (\$30,000)
2015	Outstanding Senior	Cal Poly Department of Geography
2015	Top undergraduate paper	California Geographical Society (\$500)

EXPERIENCE:

Fall 2018	Spatial Data Science Faculty Search	UCSB
Summer 2018	Visiting Researcher	NCAR Research Applications Laboratory
Winter 2018	Visiting Researcher	VU Amsterdam IVM
2014-Present	Certified Agricultural Irrigation Specialist	Irrigation Association
2017	Research Coordinator	NOAA National Water Center
2017	Cartographer:	Two books and one publication
2016	Research Fellow:	NOAA National Water Center
2016	Head Poster Judge - CGS Annual Conference:	California Geographical Society
2015	GIS Technician:	El Paso County, Colorado
2014-2015	GIS Peer Assistant:	Cal Poly Data Studio
2014	GIS Intern:	San Luis Obispo County
2013	Piedras Blancas Mapping and Restoration:	Bureau of Land Management:

Published Work:

- 1 Keith C. Clarke, **J.M. Johnson**, Tim Trainor. (TBD). Contemporary Cartographic Research: A Review and Prospective. Cartography and Geographic Information Science (Accepted).
- 2 **J.M. Johnson**, Pat Johnson, Keith C. Clarke. (TBD). A National Scale System for Local Streamflow Visualization. In preparation.
- 3 Marthe Wens, **J.M. Johnson**, Cecilia Zagaria, T.I.E Veldkamp. (TBD). *Improving Drought Risk Modeling: An Agent-based Approach*. WIRES Water (In review).
- 4 **J.M. Johnson**, Jim M. Coll, Paul J. Ruess, and Jordan T. Hastings. (2018). *Challenges and Opportunities for Creating Intelligent Hazard Alerts: The 'FloodHippo' Prototype*. Journal of the American Water Resources Association (JAWRA) 1-10.
- 5 H.A. Loaiciga, **J.M. Johnson**. (2018). *Infiltration on sloping terrain and its role on runoff generation and slope stability*. Journal of Hydrology.
- 6 **J.M. Johnson**, H.A. Loaiciga. (2017). Coupled Infiltration and Kinematic-Wave Runoff Simulation in Slopes: Implications for Slope Stability. Water.
- 7 **J.M. Johnson**, Coll J.M, et al.. (2017). *National Water Centers Innovators Program Summer Institute Report*. Consortium of Universities for the Advancement of Hydrologic Science, Inc. Technical Report 14.
- 8 **J.M. Johnson**. (2017). Peoples and Regions of Africa [map]. Scale not given. Cole, Herbert M. Maternity Mothers and Children in the Arts of Africa, CT: Yale University Press.
- 9 **J.M. Johnson**. (2017). Rising Sea Levels: Hawaii [map]. Scale not given. Water: An Atlas. Oakland, CA: Guerilla Cartography.
- 10 **J.M. Johnson**. (2017). Map of Staats-Brabant indicating territories and boundaries c. 1648 [map]. Scale not given. van de Meerendonk et al. Striving for Unity: The Significance and Original Context of Political Allegories by Theodoor van Thulden for 's-Hertogenbosch Town Hall. Early Modern Low Countries. Figure 6.
- 11 **J.M. Johnson**, Coll J.M, Ruess P.J.. (2016). *OPERA-Operational Platform for Emergency Response and Awareness: Reimagining Disaster Alerts*. National Water Center Innovators Program Summer Institute Report. Consortium of Universities for the Advancement of Hydrologic Science, Inc. Technical Report 13, Ch 11.
- 12 Coll J.M, **J.M. Johnson**, Ruess P.J.. (2016). *Radar Measurement and Flow Modeling: Methods*. National Water Center Innovators Program Summer Institute Report. Consortium of Universities for the Advancement of Hydrologic.

Presentations:

1	Dec 2018	AGU Fall Meeting The National Water Model and R: Providing fast discovery, access, and usability of NWM output and earth systems data	presentation
2	Dec 2018	AGU Fall Meeting Drought adaptation behavior of agricultural stakeholders: An Agent Based Model for Kenya	presentation
3	June 2018	International Congress on Environmental Modelling and Software An agent-based approach to evaluating sustainable drought adaptation policy	presentation
4	June 2018	International Congress on Environmental Modelling and Software Simulating dynamic drought adaptation behavior of agricultural stakeholders using Agent-Based Models	presentation
5	April 2018	EGU Integrating Adaption behavior in drought risk analysis	poster

6	Dec 2017	AGU Fall Meeting <i>HydroData: Discover Earth Systems Data with R</i>	eLightning talk
7	July 2017	CUAHSI Hydroinformatics Conference Real-time Discharge-to-Damage Flood Mapping 'Anywhere, USA'	presentation
8	May 2017	@Spatial Tech Talk UCSB Spatial Center Accessing National Water Model Output	presentation
9	Nov 2016	UCGIS Webinar 2017 CUAHSI SI: Collaborative Problem Solving at the National Water Center	presentation
10	Nov 2016	HAZUS Users Conference Reimagining Disaster Alert Systems: OPERA	presentation
11	Oct 2016	UCSB SDSU Retreat The Five Meanings of Water Security	presentation
12	Aug 2016	NCAR FloodHippo and the National Water Model	presentation
13	July 2016	CUAHSI Biennial Conference Densified Radar Measurement and Flow Modeling	poster
14	May 2016	California Geography Society 2016 Annual Conference Rising Temperatures and Water Supply: Tools for Water Security	presentation
15	April 2016	UC Student Lobby Conference Water Research: Problems with Scale in Data-driven	presentation
16	May 2015	California Geography Society 2015 Annual Conference Developing a Decision Support System for California Surface Water	presentation

Scientific Software:

ocie.	ittiic Software.	
1	AOI	An R package for generating spatial boundaries https://mikejohnson51.github.io/AOI/
2	HydroData	An R package for finding geospatial and observation data https://mikejohnson51.github.io/HydroData/
3	NWM	An R client for the National Water Model https://mikejohnson51.github.io/NWM/
4	climateR	An R client for compiling gridded and observation climate data https://github.com/mikejohnson51/climateR
5	FloodMapping	An R Package for flood mapping using HAND and the National Water Model https://mikejohnson51.github.io/FloodMapping/
6	nwmRetro	An R package for supplimenting NHD volume estimates using the NWM. ${\tt https://github.com/mikejohnson51/nwmRetro}$

TEACHING ASSISTANT, DEPARTMENT OF GEOGRAPHY, UCSB:

1	Winter 2019	Conceptual Modeling and Programming for the Geo-Sciences	Dr. Krystof Janowitz
2	Fall 2018	Maps and Spatial Reasoning	Dr. Keith Clarke
3	Summer 2018	Living with Global Warming	Dr. Catherine Gautier
4	Spring 2018	Cartographic Design and Geovisualization	Dr. Keith Clarke
5	Fall 2017	Maps and Spatial Reasoning	Dr. Keith Clarke
6	Spring 2017	Water Quality	Dr. Catherine Gautier
7	Winter 2017	Conceptual Modeling and Programming for the Geo-Sciences	Dr. Krystof Janowitz
8	Fall 2016	Oceans and Atmosphere	Dr. Tim DeVeries
9	Summer 2016	Living with Global Warming	Dr. Catherine Gautier

UNDERGRADUATE RESEARCH MENTORSHIP, UCSB:

1 2018-present Dino Korac
2 2016-present Jeremy Neil

3 **2017** Benjamin Sterne & Eric Gunter