J. Michael 'Mike' Johnson

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EDUCATION:

2015 - Present **University of California Santa Barbara (UCSB)**
>PhD Candidate in Geography (passed written exams)

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	**COMET Partners Grant**	NOAA National Water Center ($15,000)
2017	**UCGHI Planetary Health Center of Expertise**	Seed Grant ($10,000)
2017	**Dangermond Travel Scholarship**	AGU ($800)
2017	**National Water Center Course Coordinator**	CUASHI ($15,000)
2017	**CUASHI Travel Grant**	WRF-hydro Training ($500)
2016	**Dangermond Travel Scholarship**	HAZUS Conference ($700)
2015-2016	**University of California Regents**	Disciplines Fellowship ($30,000)
2015	**Cal Poly Department of Geography**	Outstanding Senior
2015	**California Geographical Society**	Top undergraduate paper

EXPERIENCE:

Apr-Sep, 2018	**Visiting Researcher:**	NCAR Research Applications Laboratory
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 **J.M Johnson**, Pat Johnson, Keith C. Clarke. (TBD). *FlowFinder: Hydrology as a service via the National Water Model*. In preparation. https://mikejohnson51.github.io/mikjohns51.github.io/FlowFinder/.

2 Marthe Wens, **J.M Johnson**, Cecilia Zagaria, T.I.E Veldkamp. (TBD). *Improving Drought Risk Modeling: An Agent-based Approach*. In review.

3 **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. https://doi.org/10.1111/1752-1688.12645.

4 H.A. Loaiciga, **J.M Johnson**. (2018). *Infiltration on sloping terrain and its role on runoff generation and slope stability*. Journal of Hydrology. https://www.sciencedirect.com/science/article/pii/S0022169418302762.

5 **J.M Johnson**, H.A. Loaiciga. (2017). *Coupled Infiltration and Kinematic-Wave Runoff Simulation in Slopes: Implications for Slope Stability*. Water. http://www.mdpi.com/2073-4441/9/5/327.

6 **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. https://www.cuahsi.org/uploads/library/CUAHSI_2017SI_TR14V102_DOI.pdf.

7 **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.

8 **J.M Johnson**. (2017). *Rising Sea Levels: Hawaii [map]. Scale not given*. Water: An Atlas. Oakland, CA: Guerilla Cartography.

9 **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. https://www.emlc-journal.org/articles/10.18352/emlc.26/.

10 **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. https://www.cuahsi.org/uploads/library/cuahsi_tr13_8.20.16.pdf.

11 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. https://www.cuahsi.org/uploads/library/cuahsi_tr13_8.20.16.pdf.

Presentations:

1	**June 2018**	**International Congress on Environmental Modelling and Software** *An agent-based approach to evaluating sustainable drought adaptation policy*	presentation
2	**June 2018**	**International Congress on Environmental Modelling and Software** *Simulating dynamic drought adaptation behavior of agricultural stakeholders using Agent-Based Models*	presentation
3	**April 2018**	**EGU** *Integrating Adaption behavior in drought risk analysis*	poster
4	**Dec 2017**	**AGU Fall Meeting** *HydroData: Discover Earth Systems Data with R*	lightning talk/poster
5	**July 2017**	**CUASHI Hydroinformatics Conference** *Real-time Discharge-to-Damage Flood Mapping 'Anywhere, USA'*	presentation

6	**May 2017**	**@Spatial Tech Talk UCSB Spatial Center** *Accessing National Water Model Output*	presentation
7	**Nov 2016**	**UCGIS Webinar** *2017 CUAHSI SI: Collaborative Problem Solving at the National Water Center*	presentation
8	**Nov 2016**	**HAZUS Users Conference** *Reimagining Disaster Alert Systems: OPERA*	presentation
9	**Oct 2016**	**UCSB SDSU Retreat** *The Five Meanings of Water Security*	presentation
10	**Aug 2016**	**NCAR** *FloodHippo and the National Water Model*	presentation
11	**July 2016**	**CUASHI Biennial Conference** *Densified Radar Measurement and Flow Modeling*	poster
12	**May 2016**	**California Geography Society 2016 Annual Conference** *Rising Temperatures and Water Supply: Tools for Water Security*	presentation
13	**April 2016**	**UC Student Lobby Conference** *Water Research: Problems with Scale in Data-driven*	presentation
14	**May 2015**	**California Geography Society 2015 Annual Conference** *Developing a Decision Support System for California Surface Water*	presentation

TEACHING ASSISTANT, DEPARTMENT OF GEOGRAPHY, UCSB:

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