

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

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

TEACHING ASSISTANT, DEPARTMENT OF GEOGRAPHY, UCSB:

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

UNDERGRADUATE RESEARCH MENTORSHIP, UCSB:

1	2018-present	Dino Korac
2	2016-present	Jeremy Neil
3	2017	Benjamin Sterne & Eric Gunter