

J. Michael 'Mike' Johnson

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EDUCATION:

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| 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:

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| 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:

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|---|--|--|
| April 13 – Sep 23 rd , 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 | Undergraduate and Graduate Head Poster Judge: | <i>California Geographical Society</i> |
| 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. **Johnson, J. M.**, 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>
2. H. A. Loaiciga, **J. M Johnson, 2018**. *Infiltration on sloping terrain and its role on runoff generation and slope stability*, Journal of Hydrology ISSN 0022-1694, <https://doi.org/10.1016/j.jhydrol.2018.04.023> .
3. **Johnson J. M**, Loaiciga HA. **2017**. *Coupled infiltration and kinematic-wave runoff simulation in slopes: implications for slope stability*. Water 9(5). 2017 doi:10.3390/w9050327
4. **Johnson J. M**, 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 doi:10.4211/technical.20171009
5. **Johnson J. M**, Ruess, Coll. *OPERA—Operational Platform for Emergency Response and Awareness: Reimagining Disaster Alerts*. **2016**. National Water Center Innovators Program Summer Institute Report. Consortium of Universities for the Advancement of Hydrologic Science, Inc. Technical Report 13, Ch 11.
6. Coll, **Johnson J. M**, Ruess. *Radar Measurement and Flow Modeling: Methods*. **2016**. National Water Center Innovators Program Summer Institute Report. Consortium of Universities for the Advancement of Hydrologic Science, Inc. Technical Report 13, Ch 1.

PRESENTATIONS:

1. **April 2018:** **EGU**..... poster
Integrating Adaption behavior in drought risk analysis
2. **Dec 2017:** **AGU Fall Meeting**..... lightning talk/poster
HydroData: Discover Earth Systems Data with R
3. **July 2017:** **CUASHI Hydroinformatics Conference**presentation
Real-time Discharge-to-Damage Flood Mapping “Anywhere, USA”
4. **May 2017:** **@Spatial Tech Talk UCSB Spatial Center**presentation
Accessing National Water Model Output
5. **Nov 2016:** **UCGIS Webinar**presentation
2017 CUAHSI SI: Collaborative Problem Solving at the National Water Center
6. **Nov 2016:** **HAZUS Users Conference**.....presentation
Reimagining Disaster Alert Systems: OPERA
7. **Oct 2016:** **UCSB SDSU Retreat**.....presentation
The Five Meanings of Water Security
8. **Aug 2016:** **NCAR**presentation
FloodHippo and the National Water Model
9. **July 2016:** **CUASHI Biennial Conference**.....poster
Densified Radar Measurement and Flow Modeling
10. **May 2016:** **California Geography Society 2016 Annual Conference**.....presentation
Rising Temperatures and Water Supply: Tools for Water Security
11. **April 2016:** **UC Student Lobby Conference**presentation
Water Research: Problems with Scale in Data-driven Policy
12. **May 2015:** **California Geography Society 2015 Annual Conference**.....presentation
Developing a Decision Support System for California Surface Water

UPCOMING ACCEPTED TALKS:

13. June 2018 **International Congress on Environmental Modelling and Software.....presentation**
Simulating dynamic drought adaptation behavior of agricultural stakeholders
using Agent-Based Models
14. June 2018 **International Congress on Environmental Modelling and Software.....presentation**
An agent-based approach to evaluating sustainable drought adaptation policy

TEACHING ASSISTANT, DEPARTMENT OF GEOGRAPHY, UCSB:

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

UNDERGRADUATE RESEARCH MENTORSHIP, UCSB

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