

# Ryan J. Erickson

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Available: June 2020

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## EDUCATION

	Dates
<b>UNIVERSITY OF CALIFORNIA, SANTA BARBARA (UCSB), Santa Barbara, CA</b>	
• Bachelor of Arts in Geography, Emphasis in GIS	June 2020
• Bachelor of Arts in Physics	June 2020
<b>Chaffey Community College, Rancho Cucamonga, CA</b>	
• Associate of Arts in University Studies: Mathematics and Science, IGETC	May 2017
<b>Relevant Coursework and Skills:</b>	
• Geographic Informational Science	
○ Proficiency in ESRI ArcGIS at a user level	
○ Experience with managing and maintaining geographic databases	
○ Experience with flooding analysis and creation of analytical raster models	
• Intermediate Computer Programming/Statistical Analysis skills in R	
○ Ran statistical models on transportation and climate data	
○ Applied different methods of clustering analysis and visual displays to data	
○ Advanced mapping with OpenStreetMap and Leaflet packages	
• Remote Sensing	
○ Proficient use in ENVI	
○ Deep understanding of optical electronics and systems	
• Basic Developing and Computation Skills in:	
○ Java, SQL, Python, GIMP	
• Advanced Mathematics	
○ Good understanding of calculus, linear algebra and differential equations	

## RESEARCH EXPERIENCE

• <b>Independent Studies under Instruction from Kostas Goulias</b>	March 2020 – June 2020
○ Analyzed and created datasets for other researchers to use	
○ Conducted and displayed spatial statistics on raw data	
• <b>Assistant Researcher to Somayeh Dodge for UCSB's MOVE Lab</b>	June 2020 – Current
○ Gathered data from multiple sources including Safegraph and Cuebiq	
○ Created a contact index to quantify/analyze movements of people	
○ Created mobility time series of counties during the COVID-19 pandemic	
○ Frequently collaborated with other researchers and PhD. candidates	
• <b>Instructional Assistant/Tutor</b>	June 2020 – Current
○ Taught students a variety of useful R libraries and data visualization concepts	
○ Lectured students on how to use ESRI's ArcMAP Pro	

## WORK EXPERIENCE

• <b>Lead Lifeguard: University of California, Santa Barbara Recreational Center</b>	May 2018 - June 2020
○ Provided medical relief	
○ Kept lifeguards up to date on EMS skills	
• <b>Lifeguard: Los Angeles Parks and Recreation, Frank G. Bonelli Park</b>	May 2017- June 2018
○ Maintained clean and friendly work environment	
○ Enforced park rules/often had to work with emergency services	
○ Aided in customer service around the park	
○ Adhered to strict dress code/regulations in a workspace	

## REFERENCES

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Dr. Somayeh Dodge  
Assistant Professor at UCSB  
UCSB Geography Department  
Ellison Hall, 3160,  
Santa Barbara, CA 93106  
sdodge@geog.ucsb.edu

*Somayeh is my current research advisor, though I am not enrolled at UCSB. She gave me a chance and allowed me to work with her group while I look for jobs. My research involves analyzing space-time mobility trends in relationships to COVID-19 transmission patterns.*

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Mr. Mike Johnson  
PhD. Candidate at UCSB  
UCSB Geography Department  
Ellison Hall, 3160,  
Santa Barbara, CA 93106  
jmj00@ucsb.edu

*Mike is a teacher's assistant and PhD. candidate at UCSB and has allowed me to aid in teaching a class at UCSB which covers topics in Geographical Informational Science in the Geography department at UCSB*

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**Mrs. Debbie Miles-Dutton**  
Assistant Director for Aquatics and Safety  
UCSB Department of Recreation  
UCSB Recreation Center  
Santa Barbara, CA 93106-3025  
(805) 698-0742  
debbiemilesdutton@ucsb.edu

*Debbie was one of two bosses I had at the Recreation Center as a lifeguard and was the main boss, scheduler and coordinator for the pool deck.*

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**Mr. Rick Van Hoorn**  
Aquatics Coordinator  
UCSB Department of Recreation  
UCSB Recreation Center  
Santa Barbara, CA 93106-3025  
(805) 451-5061  
rick-vh@ucsb.edu

*Rick was one of two bosses I had at the Recreation Center as a lifeguard and is the one who interviewed me before hiring me.*

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