

LAVENDER HIGHLANDER
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EDUCATION

University of California, Riverside Riverside, CA
Ph.D., Computer Science and Engineering Expected June 2020

- Advisor: Joel Li
- Dissertation: *“The Heightened Virtual Connection in Mobile Networks”*

University of California, Riverside Riverside, CA
M.S. Computer Science and Engineering June 2015

University of California, San Diego San Diego, CA
B.S. Electrical Engineering June 2013

- Senior Design Project: Three Wheeled Vehicle Design

RESEARCH INTERESTS

Mobile systems, databases, computer networks

HONORS AND AWARDS

John B. Stein Research Honor for Excellence 2017
UCR Graduate Division Grad Slam Winner, University of California 2017
Fellow of the Association for Computing Machinery (ACM) 2016

RESEARCH EXPERIENCE

Dept. of Computer Science and Engineering, UC Riverside Riverside, CA
Graduate Research Assistant, Advisor: Joel Li September 2015 – Present
System design methodology using CAD tools for mobile device applications

- Developed a software interface using CAD tools to design a database meant for mobile devices
- Established optimal virtual connection through mobile networks resulting in 2 publications

Center for Research in Intelligent Systems (CRIS), UC Riverside Riverside, CA
Graduate Student Researcher, Advisor: Ellen Levy September 2013 – August 2015
Implemented algorithms to design a computer visualization program

- Used C++, MySQL, and Java for computer program to classify and analyze a series of images

TEACHING EXPERIENCE

Dept. of Computer Science and Engineering, UC Riverside	Riverside, CA
Head Teaching Assistant	
Computer Networks, CS 164	Winter 2018 – Present
Software Construction, CS 100	Winter 2018
Teaching Assistant	
Effective Use of World Wide Web, CS 006	Fall 2017
Technical Communications, CS 180	Fall 2017
Introduction to Computer Programming, CS 005 (3 courses)	Spring 2017
Introduction to Computing, CS 008	Fall 2016
Introduction to Discrete Structures, CS 011	Fall 2016
Graduate Student Advisor	
Professional Development and Mentoring, ENGR 101	Spring 2016

PEER-REVIEWED PUBLICATIONS

Highlander, L. and Li, J. (2017). Video streaming through mobile networks. *Journal of Computer Science*. 12(5), 175-185. Under review.

Highlander, L. and Li, J. (2016). Global broadcasting using video conferencing. *Journal of Virtual Communications*. 86(3), 113-124. Under review.

Highlander, L. and Levy, E. (2015). Computer Visualization Program. *Journal of Technology*. 33(5), 222 – 240.

CONFERENCE PRESENTATIONS

Highlander, L. Video streaming through mobile networks. Poster presentation to be delivered at the UC Riverside Graduate Division Grad Slam Contest, Riverside, CA, April 2017

Highlander, L. and Li, J. Global Broadcasting using video conferencing system. Poster presentation to be delivered at the Association of Computer Machinery (ACM) Conference, Reno, NV, October, 2016.

PROFESSIONAL SERVICE

Graduate Student Association, UC Riverside
Vice President

Riverside, CA
October 2016 – June 2017

- Managed editing and production of GSA's website and redesigned user interface
- Collaborated with GSA President in facilitating monthly board council meetings consisting of 85 members

IEEE Workshop on Circuits and Systems, UC Riverside
Committee Chair

Riverside, CA
November 2016 – February 2017

- Oversaw a budget of \$12,000 and distributed funds for catering, venue, parking, and guest speaker fees
- Organized and led 20 committee members to coordinate planning in securing 10 guest speakers, technical topics and student outreach

PROFESSIONAL MEMBERSHIPS

Member, Association for Computing Machinery (ACM)

Member, American Association for the Advancement of Science

Member, Institute of Electrical and Electronics Engineers