Oliver Chang

oyc@rice.edu • +1-727-771-3641 • https://oychang.com

EDUCATION

Rice University, Houston, Texas, USA

- Ph.D. in Computer Science — Aug 2016 – Present
  - Advisor: Prof. Swarat Chaudhuri

University of Miami, Coral Gables, Florida, USA

- B.S. in Computer Science — Aug 2012 – May 2016
  - 2nd Major: Geography; Minor: Mathematics
  - Geographic Information Systems (GIS) Undergraduate Certificate
  - Graduated Magna Cum Laude with General and Departmental Honors
  - Cumulative GPA: 3.8/4.0

RESEARCH EXPERIENCE

Rice University, McNair Center for Entrepreneurship & Innovation

- Graduate Student Assistant — May 2017 – Present
  - Supervisor: Dr. Edward Egan

Florida International University, Electrical & Computer Engineering Department

- REU Student, Mobile, Pervasive, and Autonomous Technologies Lab — Oct 2015 – May 2016
  - Project: Localization via Signal Strength & Probe Requests on Android devices
  - Supervisor: Prof. Ismail Guvenc

University of Illinois, Urbana-Champaign, Department of Computer Science

- REU Student, Scientific Computing Group, Parallel Computing Institute — Jun 2015 – Aug 2015
  - Project: Optimization Opportunities for nek5000 on the Blue Waters Supercomputer
  - Supervisor: Prof. Paul F. Fischer

National Aeronautics and Space Administration, Jet Propulsion Laboratory

- Summer Intern, Physical Oceanography Distributed Active Archive Center — Jun 2014 – Aug 2014
  - Project: Automating Metadata Compliance Checking
  - Supervisors: Edward M. Armstrong and George Chang

PUBLICATIONS

JOURNALS

[1] Ryan Bunting et al. “Spatial Patterns of Larceny and Aggravated Assault in Miami-Dade County, 2007–2015”. In: *The Professional Geographer* (2017).

POSTERS

[2] Oliver Chang. “GPS & WiFi Choke Point Analysis”. In: *University of Miami GIS Day*. 2015.

[3] Oliver Chang, Michael Zoller, and Paul Fischer. “Analyzing the Scalability of Nek5000”. In: *Passionate on Parallel Poster Day*. 2015.

[4] Oliver Chang, Edward M. Armstrong, and David Foster. “Improving Compliance for Earth Science Data Records”. In: *Fall Meeting of the American Geophysical Union*. 2014.

AWARDS & SCHOLARSHIPS

- Outstanding Computer Science Undergraduate, University of Miami — May 2016
  Awarded by the faculty of the computer science department to a single graduating student.
- National Merit Scholarship — Aug 2012 – May 2016
  Supported by the National Merit Scholarship Program for four years

OUTREACH & MENTORSHIP

Graduate Student Association (GSA), Rice University

- Social Programming Director — Apr 2017 – Present
  - Planned and executed large socials for the benefit of the graduate student community
- Graduate-Undergraduate Mentor
  - Engaged upper-level undergraduate mentees with alternatives to careers in industry like work-study and masters programs

Designing with Rice Engineers — Achievement through Mentorship (DREAM), Rice University

- Highschool Mentor — Jan 2017 – Apr 2017
  - Led seven junior-level students in the application of the physics principles necessary to construct a simple catapult
  - Taught a self-prepared lecture about scholarships, grants, federal & state funding using personal examples to demystify college affordability

Association for Computing Machinery, University of Miami

- Vice President — Aug 2015 – May 2016
  - Participated in 2016 ACM Southeast International Collegiate Programming Competition

- Sought to engage CS department faculty with their professional organization

Camner Academic Resource Center, University of Miami

- Peer Tutor — Jan 2014 – May 2016
  - Oversaw study groups of 1-6 students for introductory and intermediate level courses in computing
  - Certified International Tutor by the College Reading & Learning Association
  - Nominated for Sheila Dube Outstanding Tutor Award

PROFESSIONAL EXPERIENCE

REConsole, Inc., Fort Lauderdale, Florida

- Software Engineering Intern — Jan 2016 – May 2016
  - Investigated errors in Extract-Transform-Load (ETL) process to resolve geographical parsing errors.
  - Bundled together ETL scripts with Spark, ElasticSearch, and PostgreSQL on Google Compute Engine nodes to automate a days worth of manual work.