

Oliver Chang

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

EDUCATION

Rice University, Houston, Texas, USA

- Ph.D. in Computer Science
• Advisor: Prof. Swarat Chaudhuri

Aug 2016 – Present

University of Miami, Coral Gables, Florida, USA

- B.S. in Computer Science
• 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

Aug 2012 – May 2016

RESEARCH EXPERIENCE

Florida International University, Electrical & Computer Engineering Department

- REU Student, Mobile, Pervasive, and Autonomous Technologies Lab
• Project: Localization via Signal Strength & Probe Requests on Android devices
• Supervisor: Prof. Ismail Guvenc

Oct 2015 – May 2016

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

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

Jun 2015 – Aug 2015

National Aeronautics and Space Administration, Jet Propulsion Laboratory

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

Jun 2014 – Aug 2014

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
Awarded by the faculty of the computer science department to a single graduating student.
- National Merit Scholarship
Supported by the National Merit Scholarship Program for four years

May 2016

Aug 2012 – May 2016

OUTREACH & MENTORSHIP

Graduate Student Association (GSA), Rice University

- Social Programming Director
• 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

Apr 2017 – Present

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

- Highschool Mentor
• 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

Jan 2017 – Apr 2017

Association for Computing Machinery, University of Miami

- Vice President
• Participated in 2016 ACM Southeast International Collegiate Programming Competition
• Sought to engage CS department faculty with their professional organization

Aug 2015 – May 2016

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.