

# 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

## CAMPUS ACTIVITIES

### 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  
• 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

Jan 2014 – May 2016

## PROFESSIONAL EXPERIENCE

### REConsole, Inc., Fort Lauderdale, Florida

- Software Engineering Intern  
• 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.

Jan 2016 – May 2016