Edison Orellana

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EDUCATION

University of Illinois at Urbana-Champaign

- Bachelor of Arts (B.A.) in Geographic Information Science — Aug 2012 – May 2016
  - **Geography 479: High Performance Computing** Used Apache Spark and Hadoop on the campus GIS supercomputer, ROGER co-located with Blue Waters supercomputer
  - **Geography 489: Programming for GIS** Used R to manipulate, analyze, and visualize large sets of geospatial data using advanced functions and spatial algorithms
  - **Geography 460: Aerial Photo Analysis** Photogrammetry, feature interpretation
  - **Geography 477: Remote Sensing** Processed imagery and conducted analyses in ENVI and R
  - **Informatics 490: Advanced Data Science** Gained knowledge in machine learning, advanced text mining, cloud computing, database technologies, and advanced network analysis

EXPERIENCE

Carl R. Woese Institute for Genomic Biology
University of Illinois at Urbana-Champaign

Research Programmer — May 2016 – Sep 2016
- Analysed image data for assessing crop health using R
- Researched, developed, built, and tested custom algorithms for image analysis

Agrible Inc.
Research Park, University of Illinois at Urbana-Champaign

Geospatial Analyst — Sep 2015 – Apr 2016
- Wrote python tools using FOSS for conducting geospatial analyses (raster & vector)
- Produced high quality maps for clients using QGIS
- Technologies: Python & accompanying geospatial modules, PostgreSQL, PostGIS

ACTIVITIES

Urban and Geographic Information Systems Group (UGISGROUP.ORG)
University of Illinois at Urbana-Champaign

President — Aug 2015 – Jun 2016
- Organized independent learning projects and led group instruction
- Led staff for event planning and execution
- Self-taught technical abilities from from UGIS

iRobotics
University of Illinois at Urbana-Champaign

Leader of Mechanical Research & Development — Oct 2014 – Feb 2015
- Supervised and collaborated with members through all stages of R&D projects
- Conducted independent and group research projects involving funding requests, mechanical part design, and manufacturing

Department of Geography and Geographic Information Science
University of Illinois at Urbana-Champaign

GIS Fellow — Aug 2014 – May 2016
- Selected for GIS fellowship from a group of candidates
- Provided researched feedback for upcoming courses and events

AWARDS

John Thompson Award
For academic achievement and contributions to the department of Geography & GIS at the University of Illinois
President's Award Program
Merit based scholarship for groups who have demonstrated outstanding academic achievement
Howard and Ruth Roepke Undergraduate Scholarship
Scholarship awarded based on academic performance by the GGIS Undergraduate Committee

SKILLS

Python, R, ArcGIS desktop, QGIS, Bash, VMWare ESXi, LaTeX, C, Arduino, Spanish