

# COURTNEY ZIRKEL

clzirkel@gmail.com • Long Island, NY • 516-417-0053 • czirkel.github.io

## GIS EXPERIENCE

STUDENT ASSISTANTSHIP, ESRI, San Diego, California

JULY 2018 – JULY 2018

HOUSING, PLANNING, & COMMUNITY DEVELOPMENT INTERN, City of Binghamton,

Binghamton, NY

AUGUST 2017 – DECEMBER 2017

Identified ideas and sources to aide the City of Binghamton for the Clean Energy City Designation  
Developed maps to identify notable age groups for improvement in becoming an "age friendly" city  
Investigated hot spot locations of off-campus student housing

GRADUATE TEACHING ASSISTANT, Binghamton University Geography Dept., Binghamton, NY

AUGUST 2016 – MAY 2018

Lead lectures on specialized topics in geography  
Aide students in various aspects of geography, and GIS techniques  
Proctor classes/exams  
Research Assistant for Professor Norah Henry

PLANNING AND SITUATIONAL AWARENESS INTERN, American Red Cross, New York, NY

JUNE 2017 – AUGUST 2017

Participated in the Home Fire Campaign: installing smoke & carbon monoxide alarms, and educating residents in Sheepshead Bay, Brooklyn about fire safety  
Creating user guidebooks (and supporting maps) on how to make maps using various GIS Software  
Trained "Missing Maps Project" Facilitator

GIS TECHNICIAN/ANALYST, Suez in North America (formerly known as United Water), Wantagh, NY

JANUARY 2015 - AUGUST 2016

Updated and maintained the sewer network geodatabase for Nassau County (vector data: gravity mains, manholes, SSOs, pump stations...)  
Organized daily inspection results to identify critical areas for the planning team  
Created maps for general office/field crew use  
Identified risk areas and created maps for Sonar Inspection Planning  
Generated annual reports of geodatabase updates/repair areas  
Setup GPS devices for field crew use

TEACHING ASSISTANT, SUNY Cortland Geography Department, Cortland, NY

AUGUST 2012 - DECEMBER 2012

Assisted the Geography Department Chair with organizing his Intro to GIS course  
Aided students in projects and helped them develop an understanding of innovative ideas/concepts

GIS INTERN, Nassau County Office of Emergency Management, Bethpage, NY

JULY 2012 - AUGUST 2012

Gathered data for GIS based projects  
Developed maps for office and public use such as county maps, hurricane evacuation shelters/routes, Barclays golf tournament, and started maps for the Presidential Debate at Hofstra University

## OTHER EXPERIENCE

GRADUATE STUDENT ADVISORY COMMITTEE MEMBER, Binghamton University Geography Department

OCTOBER 2017 – MAY 2018

SOCIAL COORDINATOR/ALTERNATE SENATOR, Geography Graduate Student Organization, Binghamton University

MAY 2017 – MAY 2018

Organized group events for the Geography Department

## EDUCATION

**Binghamton University – State University of New York**

Binghamton, NY – Master of Arts in Geography (Focus: GIS)

EXPECTED GRADUATION DATE: MAY, 2018

GIS Day 2018 Poster Contest - 3<sup>rd</sup> Place Winner

**State University of New York at Cortland**

Cortland, NY – Bachelor of Science in GIS (Focus: Advanced Geospatial Applications)

GRADUATED: MAY, 2014

Minors: Computer Applications, and Anthropology

Dean's List: Fall 2010, Spring 2011, Fall 2012, Spring 2012

Organized GIS Day and Geography Awareness Week 2012 (presentation and public displays)

**University of the Sunshine Coast**

Sippy Downs, QLD, Australia — Study Abroad Program

February 2013 – June 2013

Enrolled in geography courses that focused on urban and cultural aspects of Australia

## SKILLS

**GIS Software/Platforms:** ArcGIS 10.4 + Extensions, ArcGIS Online, QGIS, Spatial Analysis, Network Analysis, Python, Interactive Web Mapping, CARTO, GitHub, Data Reviewer, CityWorks, Garmin Rino 630, Trimble GPS, Garmin Forerunner, Trimble Pathfinder, ArcGIS Online, OpenStreetMap, Leaflet, DJI Phantom 3 Standard Drone, Litchi, Drone2Map

**Other Software/Platforms:** R, Adobe Photoshop, Adobe Illustrator, Javascript, Visual Basic, SPSS, Google Docs, Microsoft Office, WordPress, HTML, CSS, Blogger, Citrix

## AWARDS

**Binghamton University**

Best Teaching Assistant Award – 2018

3<sup>rd</sup> place in the GIS Day Poster competition – 2018

**Long Island GIS Day Conference**

Best Poster Award – 2017

**SUNY Cortland**

Olive C. Fish Award Winner (outstanding student in the Geography program) - 2014

Study Abroad Exchange Award Winner – 2012

## MEMBERSHIPS

**Gamma Theta Upsilon, Binghamton**

**University Chapter**

MAY 2017 – PRESENT

Acted as a liaison between the Geography Graduate Dept. and the Graduate Student Organization  
Conducted department elections

CUSTOMER SERVICE, CVS Pharmacy, East Rockaway/Lynbrook/Cortland, NY

AUGUST 2008 - AUGUST 2015

Addressed customers' questions and concerns by assisting them on sales floor and at the photo lab  
Trained new hires on the register and company expectations

PUBLIC REALTIONS/FELLOWSHIP CHAIR, Alpha Phi Omega, SUNY Cortland Chapter

AUGUST 2013 - MAY 2014

Managed the Chapter's social media accounts including: Facebook, Twitter, and Weebly website  
Organized group events within the chapter  
Kept historical records for chapter member use

VOLUNTEER CAMP COUNSELOR, Lynbrook Summer Playground, Lynbrook, NY

JULY 2006 - AUGUST 2008 (THREE CONSECUTIVE SUMMERS)

Organized activities for camp groups

Academic achievements in the Geography  
Program

**AAG (American Association of  
Geographers)**

February 2017 - PRESENT

Poster presentation at the 2018 New Orleans

AAG Conference - "After the Paint

Dries: An Analysis of Art of a

Gentrifying Bushwick, Brooklyn

Poster presentation at the 2017 Boston AAG

Conference - "Bohemia in the Boroughs:

Gentrification by the Creative Class in

New York City"

**Phi Beta Delta International Honor  
Society, SUNY Cortland Chapter**

November 2013

**Alpha Phi Omega, SUNY Cortland Chapter**

FEBRUARY 2012 - MAY 2014

Completed over 160 hours of community  
service in the local community

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## CERTIFICATIONS

### FEMA

IS-00100: Intro to Incident Command System

IS-00200: ICS for Single Resources and Initial  
Action Incident

IS-00700: National Incident Management  
System

IS-00907: Active Shooter: What Can You Do?

### Red Cross

Service Associate (SA)

Disaster Services Overview

Mass Care Overview

Sheltering Fundamentals

Psychological First Aid

Everyone is Welcome

Operations Planning Fundamentals

Incident Reporting Fundamentals

Concept of Operations Overview