CICI XIAO

SELF-ASSURANCE | RESPONSIBILITY | POSITIVITY | LEARNER | EMPATHY

CONTACT

PHONE
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LINKEDIN:
http://linkedin.com/in/

SKILLS

- Arc GIS
- Bilingual
- OpenLCA
- ERDAS
- AutoCAD
- Python
- Java
- Minitab
- Photoshop

PROFILE

- Cross-discipline skills in GIS, LCA, engineering and science
- Excellent analytical skills
- Association of Environmental Professionals — Member & Scholarship recipient
- Leaders of three campus clubs
  - Environmental Professionals Club President (2018-)
  - Chess Club President (2017-2018)
  - International Club Vice President (2017-2018)

EXPERIENCE

Data & GIS Peer Assistant at Kennedy Library October 2018 - Current
- Aiding campus users with geospatial analysis, mapping, data visualization
- Assisting with workshops and outreach events
- Developing GIS projects across different disciplines using ArcMap, Python, Tableau, AutoCAD, ERDAS, Google Earth

GIS Online Volunteer at United Nation October 2018 - Current
- Editing OpenStreetMap for mapping rural Tanzania

Volunteer at SLO Botanical Garden August, 2018 - Current
- Led a summer camp of 20 children as a camp counselor
- Assisted with seasonal plant sales, and plant labels

Research Assistant at Soil Ecology Lab — Cal Poly October 2017- April 2018
- Conducted soil health analysis and nematodes extraction for professors and graduates
- Prepared lab reports
- Research team awarded a $200,000 state grant

Life Cycle Analysis Project / Lab Assignment February-March, 2018
- Calculated and quantified environmental impacts in water bottles using stainless steel and polyethylene through OpenLCA (a software with plentiful databases)
- First author in the analysis report and scored 97% as a top report in the class

Volunteer at 2018 AEP State Conference March 25-28, 2018
- Student ambassador for the State Conference held by Association of Environmental Professionals (AEP)

Research Assistant at Quantitative Sustainability Lab January - March 2017
- Assisted faculty with all aspects of desk based including: literature review, and related reported using best practices in a focused and accurate manner
- Research Focus: Life Cycle Analysis (LCA)

TEDxCalPoly October 2016
- Provided logistical support for this successful inaugural event

RELEVANT COURSEWORK

GIS: Applications in GIS; Aerial Photogrammetry and Remote Sensing; Applied GIS
Computer Science: Python; Data Structure; Project-Based Object-Oriented Programming; Systems Programming
Earth Science: Geology; Soil Science; Botany; Dendrology; Viticulture; Hydrology
Civil Engineering: CAD in Civil Engineering; Engineering Survey
City Planning: Principles of Env Design; Urban Planning; Environmental Impact Anyl & Mgmt; Conflict Mgmt; Energy for Sustainable Society

EDUCATION

California Polytechnic State University—San Luis Obispo, California
Anticipated Graduation Date: Spring 2020
Bachelor of Science - Environmental Management and Protection
Minor - Computer Science & GIS
Cumulative Major GPA: 3.75

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GitHub:
https://github.com/Jessicaoconnor

RELEVANT SKILLS

GIS Related Skills

a. ArcGIS Desktop and Pro:
    i. Designed a bridge using AutoCAD and integrated with 3D topographic lines using ArcMap Scene
    ii. Assisted students with data acquisition and join-relate tables
    iii. Familiar with the workflow for sharing group work on ArcGIS online
    iv. Published feature layers to Esri (User name: chxiao_CalPoly)
    v. Used toolbox to achieve map automation for census tract data in different timelines
b. OpenStreetMap
    i. Map digitizing
c. Engineering Survey
    i. Familiar with the procedures and computations for differential leveling, profiles, earthwork volumes, traversing, triangulation and topographic survey
d. Trimble R8s GNSS System, total station, theodolite, laser distance meter for engineering survey

Programming:

a. Python
    i. Good knowledge of recursion, backtracking, A* search and sort algorithm, different data structures
    ii. Used A* search and path encoding to develop an interactive game — tile driver
    iii. Used two-dimensional binary search tree to locate all the airports in the world with the nearest city
    iv. Applied regular expression to sieve information from files

b. HTML
    i. Developed a map with graphics and text using Visual Studio

c. Java
    i. Optimizing the design and construction of a mining game
    ii. Good knowledge of class design, interfaces, inheritance, generics, exceptions, streams, and testing

Aerial Photogrammetry and Remote Sensing:

a. Interpretation of aerial photographs
b. VisualSFM: Created 3D object using structure from motion (SFM)
c. ERDAS Imagine & GoogleEarth:
    i. Precisely georeferenced images using rubber sheeting
    ii. Generated digital terrain model (DTM) from LIDAR
    iii. Created orthophoto from Aerial Images
    iv. Performed crop production analysis using LANDSAT data, GIS data and NAIP image.