Charles "CJ" Knoble II
Email | **LinkedIn** | **Portfolio**

EDUCATION

Doctor of Philosophy, Environmental Science and Management *Expected May 2025*
Montclair State University GPA 3.97

Bachelor of the Arts, International Relations *May 2019*
Minors in Political Science, Italian, and International Studies GPA 3.64
California State University, Chico Dean's List

EXPERIENCE

GIS Consultant *May 2022 – Present*
Starcrest LLC; Independent Consultant
- Develop project management plans to achieve GIS and visualization goals within budget
- Engage in database management by acquiring, processing, and maintaining geospatial datasets
- Automate geospatial analyses to process up to thousands of data points using GIS, Python, and R
- Created compelling static and interactive visualizations to communicate geospatial trends
- Completed 360+ hours with *Starcrest LLC* and 200+ hours as an independent consultant for 10+ clients

Adjunct Professor, Graduate Assistant *August 2021 – Present*
Montclair State University
- Develop curricula, lab exercises, and lectures for Introductory GIS course of 20+ students
- Lead lab sections for Introductory and Advanced GIS, Planet Earth, and Research Methods courses with hands-on practice using ArcGIS Pro, QGIS, Google Earth Pro, and R
- Awarded "Outstanding Teaching Assistant" in first year and promoted to adjunct position shortly after

Project Manager, Federal Clean Cities Coordinator *April 2020 – August 2021*
Center for Sustainable Energy
- Promoted California's vehicle electrification goals through educational webinars, training dealership staff, publishing bi-weekly sustainability policy newsletters, and connecting industry leaders
- Established, maintained, and tracked relationships with 60+ partner organizations using Salesforce
- Coordinated outreach impact assessment through mystery shopping and statistical analyses
- For regional Federal Clean Cities Coalition, developed annual project management plan, facilitated charter renewal, and submitted quarterly sustainability reports to federal program managers

PROJECTS

System Dynamics Simulation | *R, ArcGIS Pro, Stella Architect* *October 2023 – Present*
- Establish system level feedback model demonstrating the impact of lead (Pb) on community resources
- Deploy R functions to validate statistical assumptions, mine covariations, and output model parameters
- Stabilize system dynamics simulation through sensitivity testing to forecast future resource impacts
- Create search engine social sensing measure by scraping webpages with *reselenium* and *gtrendsR*

Port Emissions Inventories | *Python, ArcGIS Pro* *August 2022 – Present*
- Develop geospatial enrichment automation processes to tag millions of AIS point using *arcpy* in Python
- Output aggregated datasets containing location, speed, and ID information for SQL database querying
- Draft methodology descriptions, infographics, and maps for public facing inventory reports

Academic Publications *April 2023 -Present*
- Peer-reviewed environmental science research published in journals including *Remote Sensing; Sustainable Development; Journal of Sustainability Research; Environmental Research Letters*; etc.

TECHNICAL SKILLS

Tools: *ArcGIS Pro, ArcGIS Online, Esri Dashboard, QGIS, R Studio, PyCharm, iSee Systems Stella Architect*
Languages: *R, Python, SQL*
Libraries: *dplyr, sf, spdep, stats, rselenium, academictwitteR, gtrendsR, GreyModel, arcpy, dbf, pandas*