

# NINA SIEGEL

310. 713. 4273 | ninasiegel2020@u.northwestern.edu | Torrance, CA

## EDUCATION

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**Northwestern University:** Evanston, IL

**GPA:** 3.69 / 4.00

**B.A.**, Environmental Science; **B.M.**, Oboe Performance; **Certificate**, Institute for Sustainability and Energy

Graduating June 2020

**M.S.**, Energy and Sustainability

Starting September 2020

### Relevant Coursework:

**Sustainability:** Sustainability Project Management: The Policy and Regulatory Context, Energy Systems for the 21<sup>st</sup> Century, Climate Change and Sustainability, Humans and the Environment; **Policy:** Environmental Law and Policy, U.S Environmental Politics, Global Environmental Politics, Energy in American History, Macroeconomics, Microeconomics; **Science:** Public and Environmental Health, Environmental Microbiology, Health of the Biosphere, ArcGIS, R Programming, Statistics, Chemistry, Genetics and Molecular Biology

## EXPERIENCE

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### Electric Vehicle (EV) Charging Infrastructure Optimization Advisor (Northwestern Practicum)

March 2020 – present

City of Chicago, Department of Transportation (CDOT): <https://www.chicago.gov/city>

Chicago, IL

- Making strategy recommendations to CDOT on EV charging infrastructure placement by balancing perspectives from private and public stakeholders to optimize limited city funding, navigate regulatory and legal barriers, and meet customer needs
- Addressed inequity among communities by creating maps revealing vast charging deserts: areas of the city with demonstrated demand for EVs based on number of registered EVs but with a clear lack of public charging infrastructure
- Identified regions of high ozone, poor air quality, and absence of public transportation to inform EV charging deployment focus areas

### Civil and Commercial Launch Projects Environmental Intern

June 2019 – September 2019

The Aerospace Corporation: [www.aerospace.org](http://www.aerospace.org)

El Segundo, CA

- Generated *Launch Vehicle and Emission Database Tool* in Excel that tracks launch vehicle, propellant type, and alumina/black carbon emission history and automatically updates trend information with new data inputs to inform potential emission control regulation
- Wrote report on the *Cost Impact of a Carbon Tax in the Space Industry* applying plausible carbon tax scenarios based on aviation carbon tax literature to determine how such schemes would affect launch economics
- Studied the role of sustainability and climate change mitigation policies in the aerospace industry through the lens of rocket emissions

### Sustainability Intern

June 2018 – August 2018

National Park Service (NPS), Golden Gate National Recreation Area (GGNRA): [www.nps.gov/goqa](http://www.nps.gov/goqa)

San Francisco, CA

- Initiated discussion between GGNRA Chief of Natural Resources, GGNRA Sustainability Coordinator, and three plant nursery directors/managers about the implications of climate change on seed collection policies in GGNRA
- Wrote *Seed Collection Zone* report evaluating the congruity of collection policies with the GGNRA Climate Change Action Plan and NPS Management Policies and presenting technology resources that model seed zone alterations based on predicted levels of global warming
- Wrote the *GGNRA Sustainability Newsletter, Volume 5* highlighting parkwide achievements in sustainability in 2018
- Trained in NPS employee recycling/composting awareness and effective climate change communication strategies

### Environmental Policy Research Assistant

June 2017 – June 2018

Presence to Influence: [www.presence2influence.org](http://www.presence2influence.org)

Evanston, IL

- Researched the influence of marginalized and underrepresented indigenous peoples on global environmental governance processes
- Transcribed audio files of indigenous network negotiations and presentations from the Paris Climate Summit (2015), World Conservation Congress (2016), and Tenth Conference of Parties to the Convention on Biological Diversity (2010)

## VOLUNTEER EXPERIENCE

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### Students for Environmental and Ecological Development

May 2018 – present

President, Northwestern University

Evanston, IL

- Established a volunteer program with the Evanston district Green Team for Northwestern students to teach children basic sustainability concepts as “Environmental Club” leaders at the local elementary school

## SKILLS

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- Microsoft Office Suite: Excel, Word, PowerPoint
- Coursework in R Programming
- Pixlr: Photo Editing Software
- Coursework in ArcGIS
- Coursework in Mandarin

## OTHER ACTIVITIES

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• **Northwestern University Bienen School of Music:** Principal Oboist

September 2016 - present

*Symphony Orchestra, Symphonic Wind Ensemble, Contemporary Music Ensemble, Chamber Orchestra, Symphonic Band*