

Nickolas Bartel

ncbartel@andrew.cmu.edu | www.nickolasbartel.com | www.linkedin.com/in/nickolas-bartel/

EDUCATION

Carnegie Mellon University, H. John Heinz III College, Pittsburgh, Pennsylvania

Master of Science Public Policy & Management

Expected Graduation: May 2025

- A highly selective program integrating graduate work in public policy, management, technology, and analytics with a fellowship between first and second year of study
- Teaching Assistant for *Strategic Presentation Skills* (90-718) and *Telling Stories with Data* (94-870)
- Student Expert Panelist for Deliberative Discourse series on addressing the threat of digital information on elections and social movements through technology such as artificial intelligence

Washington & Jefferson College, Washington, Pennsylvania

- B.A. in Political Science, Environmental Studies, and Spanish, *Summa Cum Laude*

RELEVANT COURSEWORK

Carnegie Mellon University, H. John Heinz III College, Pittsburgh, Pennsylvania

- *Resilient & Sustainable Communities*: Integrating fair, equitable, resilient, sustainable, and green practices into community development strategies by evaluating policy and public planning initiatives while having a semester long project with a team of graduate students with the City of Pittsburgh and Pittsburgh Regional Transit on the feasibility and procurement of renewable diesel to decarbonize their diesel fleets
- *Systems Analysis: Environmental Policy*: Evaluating policymaking tools including optimization, economic modeling, risk analysis, and GIS to evaluate and design policy solutions from a systems-based approach
- *Geographic Information System (GIS)*: Use of leading GIS software such as ArcGIS Pro & Online, ArcGIS Map Viewer, Story Maps, and Dashboards to identify, access, and analyze geospatial data to solve policy issues through project-based application of the concepts learned within the classroom
- *Smart Cities: Growth and Intelligent Transportation Systems*: Developing an understanding of smart cities with energy systems, public safety, health and human services, and water and sewer infrastructure through project-based application of the concepts learned within the classroom
- *Writing for Public Policy*: Developing real-world documents relevant to public policy careers and crafting strategic quotes for news releases, and writing policy one-pages and memos
- *Statistical Reasoning with R*: Conducting data analysis using R to analyze real-world policies and research using causal inference, univariate and bivariate descriptive statistics, quantifying uncertainty, statistical inference, and linear regression.

Washington & Jefferson College, Washington, Pennsylvania

- *American Energy Policy*: Exploring the different benefits and costs of major forms of energy production in the United States, analyzing policy implementation through applicable agencies and the policy process, and creating policy memos on relevant career interests related to energy policy
- *Community Analysis Techniques*: Identifying public data sources such as the U.S. Census, American Community Survey and Bureau of Labor Statistics in key policy areas, analyzing the data using GIS, infographics, dashboards, and charts and graphs, and conveying the findings to peers

SKILLS

Language: Spanish (Fluent); Technical: Python, R, SPSS, SQL, Microsoft Excel, HTML, CSS, Tableau, ArcGIS

PROFESSIONAL EXPERIENCE

Carnegie Science Center, Pittsburgh, Pennsylvania

May 2016 - Present

Program Presenter

- Presented over 2 dozen shows and demonstrations on scientific topics for adults and children for communicating science in easy-to-understand ways via demonstrative interactive science experiments
- Completed Autism Awareness training worked with visitors with Autism during the Autism Sensory Sensitive days

Allegheny County Department of Sustainability, Pittsburgh, Pennsylvania
Sustainability Intern

May 2024-August 2024

- Led efforts to transition Allegheny County's diesel fleets to renewable diesel with a joint project between Allegheny County, Pittsburgh Regional Transit, and the City of Pittsburgh after identifying producers and suppliers within the region, finding infrastructure grant funding, comparing performance differences, and resolving stakeholder concerns
- Supported the Allegheny County Climate Action Plan proposal submission process through identifying 56 governments who had completed the process previously and identified the duration of development, cost of the plan, consultants utilized, and stakeholders engaged to compare to the proposals submitted
- Investigated the fossil fuels divestment as part of the County Executive's Office efforts to decarbonize through identifying and contacting 18 governments, including Baltimore and Pittsburgh, who are divesting, their divestment duration period, advantages and disadvantages, and recommended strategies to divest
- Researched and developed policies for the procurement of low-embodied carbon concrete and asphalt by meeting with construction companies, advocacy groups, asphalt and concrete suppliers, and government agencies, including the General Services Administration and Federal Highway Administration
- Conducted environmental, health, and financial feasibility on the electrification of lawn care equipment
- Evaluated the feasibility and innovations found through hydrogen within Southwestern Pennsylvania
- Designed, marketed, and executed a community sustainability engagement event attended by over 250 people with 19 non-profit sustainability groups sharing how they are engaging on the local impacts of climate change

Fair Elections Center, Washington, Pennsylvania
Democracy Fellow

February 2020 - August 2021

- Testified to the bipartisan PA Redistricting Commission in 2020 for Higher Education Institutions to not divide into separate districts with the 2020 legislative redistricting to make voting less complicated for students
- Wrote and earned two grants from Students Learn, Students Vote for campus student voter registration drives
- Participated at the National 2020 Students Learn, Students Vote National Conference as 1 of 12 representatives from Pennsylvania to learn and share methods of increasing student voter engagement on college campuses

Ann Brancato for New York State Assembly, Nassau County, New York
Policy Intern

April 2020 - August 2020

- Led a policy research team in developing a COVID-19 state economic recovery campaign policies.
- Researched and wrote policy briefs on environmental issues, sustainable and equitable economic recovery, and supporting frontline workers.
- Created New York State legislation briefings for the candidate on current legislation in the assembly

John Brooks for New York State Senate, Nassau County, New York
Policy Intern

April 2020- August 2020

- Worked directly with constituents to help find resources on COVID-19, the US Census, and senior issues.
- Wrote weekly constituent email newsletters informing constituents about the Senator's position on local, state, and national issues.
- Evaluated policy positions of advocacy groups that the campaign sought their endorsement.

ACADEMIC PROJECTS

- Conducted research with the Center for Energy Policy & Management to create a nationwide representative survey on the impact of public opinion's view on climate change on energy policies (Spring 2022)
- Conducted independent research on factors influencing climate change beliefs and presented at the 2023 Inter-American Conference: Climate Change as System Change in Graz, Austria (2022-23)
- Conducted independent research at the University of Costa Rica on factors impacting environmentalist beliefs in Costa Rica during a semester studying abroad in Fall 2022
- Conducted independent research on factors influencing international Generation Z voting habits and presented at the 2022 Pennsylvania Political Science Conference