

Derek Taylor

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WORK EXPERIENCE

Beyond Words Studio (<https://beyondwordsstudio.com/>)

Oct. 2022 – Present

Data Analytics and GIS Specialist

London, UK

- As a data analyst for the data journalism and design firm Beyond Words Studio my roles include:
 - Processing data with the pandas/geopandas python package and PostgreSQL in search of compelling data stories within large datasets
 - Coding and creating interactive maps using MapBoxGL and Javascript with various functionalities and animations to enhance the visual storytelling
 - Collecting, cleaning, analyzing data to design physical map visualizations, including a Covid map presented at an installation for the Bill Gates Foundation (ex. <https://beyondwordsstudio.com/our-work/covid-map/>)
 - Building a 3D elevation model of Africa using open source satellite data, Rasterio, and Blender. Combining the model with farming system data in QGIS to give an insight to the relationship of climate and elevation on farming systems in the continent (ex. with legends removed https://dktaylor916.github.io/africa_render/)

Goudappel (<https://www.goudappel.nl/en>)

June 2018 – June 2022

Data Scientist and GIS Specialist / US Policy Researcher

Amsterdam, Netherlands

- As a data scientist for the Dutch transportation firm Goudappel I was responsible for:
 - Collecting, cleaning, analyzing, and visualizing real-world data from Dutch and international municipalities (including Amsterdam, San Francisco, and Gothenburg) using advanced python, SQL, and GIS techniques to present social, transportation, and environmental data (ex. https://dktaylor916.github.io/nlruimte_v2/)
 - Coding and writing data mapping stories on a strict deadline to better inform stakeholders about the context of projects (ex. <https://dktaylor916.github.io/marketstreetfinal/>)
 - Transforming technical and complex data outputs from transportation models into interactive and visually stimulating visualizations to better inform stakeholders in the planning process (ex. <https://dktaylor916.github.io/datamaps/>)
 - Improving data collection systems, utilizing python web scraping libraries and RESTful APIs to access hard to reach datasets, fully automating the collection and cleaning process
- As as US Policy Researcher my roles included:
 - Creating a strategic framework for the Dutch transportation system using academic literature and professional guidance.
 - Presenting the framework described above at the Dutch Consulate in San Francisco, Dutch Mobility Week in Los Angeles, Dutch Mobility Week in the Puget Sound, and to representatives in the German Bundestag

Terner Center, UC Berkeley (<https://ternercenter.berkeley.edu/>)

Jan. 2017 – May 2018

Research Assistant

Berkeley, California

- Developed a survey to analyze land use regulations in California with Professor Carolina Reid
- Facilitated feedback from land use housing experts and other stakeholders
- Prepared a report and submitted to the California Department of Housing and Community Development to supply data and research in support of the housing crisis in California

EDUCATION

University of California, Berkeley

Dec. 2017

Bachelor of Science: City Planning, Geospatial Information Systems and Technology

Berkeley, California

- GPA 3.85, College of Natural Resources High Distinction
- Studied urban design in Copenhagen, Denmark during spring 2016 semester (Copenhagen University)

CERTIFICATIONS, SKILLS, LANGUAGES & INTERESTS

- **Certifications:** CS50x: CS50's Introduction to Computer Science (HarvardX), Algorithms Specialization (Stanford Online)
- **Skills:** QGIS, Python, scikit-learn, TensorFlow, PostgreSQL, PostGIS, GitHub, , Javascript, HTML, CSS, React
- **Languages:** English (Native Language), French (B2), Dutch (B2)
- **Interests:** Biking, surfing, playing drums, saunas, chess, jumping into cold bodies of water