# Raanan Gurewitsch (rä-ä-nän goor-eh-wich)



New York, NY rgurewitsch@gmail.com

#### **Work Experience**

### Data Scientist, BlueConduit

Remote - Full-time

01/2020-Present

**Skills:** Data science - *Databricks on AWS, PySpark, sklearn,* geopandas, ArcGIS; ArcGIS Online; Full-stack - ReactJS, Mapbox GL JS, Flask; Product management & UX design - *Jira, Miro, Figma*; Public speaking; Meeting facilitation

- Currently in a client-facing role, using machine learning and spatial data science to identify lead service lines for six public and investor-owned utility clients, accelerating asset replacement and prioritizing public health of vulnerable populations.
- Working with the data engineering team to scale data science operations and transition to ML-in-production using Databricks on AWS and ArcGIS platform--to date has driven ~\$12K reduction in per-customer cost-to-serve.
- Compiled and estimated national lead service line inventory to help public water systems apply for Bipartisan Infrastructure Bill funding, part of the <u>White House Partnership on Lead Service Lines</u>. These estimates are a foundational component of <u>BlueConduit's free software tool for utilities</u>.
- As *product manager*, established product development lifecycle, managed product engineering team, acted as project lead for <u>Google.org Fellowship</u>, brought flagship SaaS product to market.

### Data Science Contractor, <u>Two Degrees Adapt</u>

Remote - Part-time

06/2023-Present

• Data mining and <u>visualization of environmental datasets</u> for future-climate and levelized cost of energy projections for renewables development, agriculture stakeholders in the Midwestern U.S.

Research Programmer, Public Health Dynamics Lab (Pitt) Pittsburgh, PA - Full-time 09/2019 - 04/2020

Skills: Data science - sklearn, geopandas, sp, sf, ggplot, FlexScan, GWR, SpatEntropy; Full-stack - Django, d3.js, Plotly; Public speaking

- Conducted study on mortality rates related to overdose and suicide in Appalachian region, manuscript in pre-publication, see <u>recent story map</u>. Contributed to study on small area estimation of health survey data, <u>published 2022</u>.
- Generated synthetic datasets for testing SpaceStat geostatistical software (BioMedware part-time subcontract).

## Civic Digital Fellow, <u>US Census Bureau</u>

Suitland, MD - Full-time

06/2019 - 08/2019

Skills: Data science - sklearn, geopandas, osmnx, networkx, OpenStreetMap

- Developed OpenStreetMap feature engineering ETL for US Census Bureau's secure computing environment.
- Used random forest models to identify businesses unlikely to report shipping activity, saving \$400,000 in administrative burden related to sampling error in the US Commodity Flow Survey.

#### Client Services Intern, <u>Innovation and Performance</u>

Pittsburgh, PA - Part-time

03/2018 - 04/2019

Developed business cases and gathered technical requirements for digital transformations across 19
departments and agencies in the City of Pittsburgh. Identified \$2M in potential annual savings through software
inventory and procurement analysis.

#### **Education**

# **BPhil** in Information Science, University of Pittsburgh

08/2015 - 04/2019

Magna Cum Laude - GPA: 3.696 - Economics minor, Geoinformatics Laboratory, University Honors College