

# Emerson Goncus

## Data Scientist

Pittsburgh, PA

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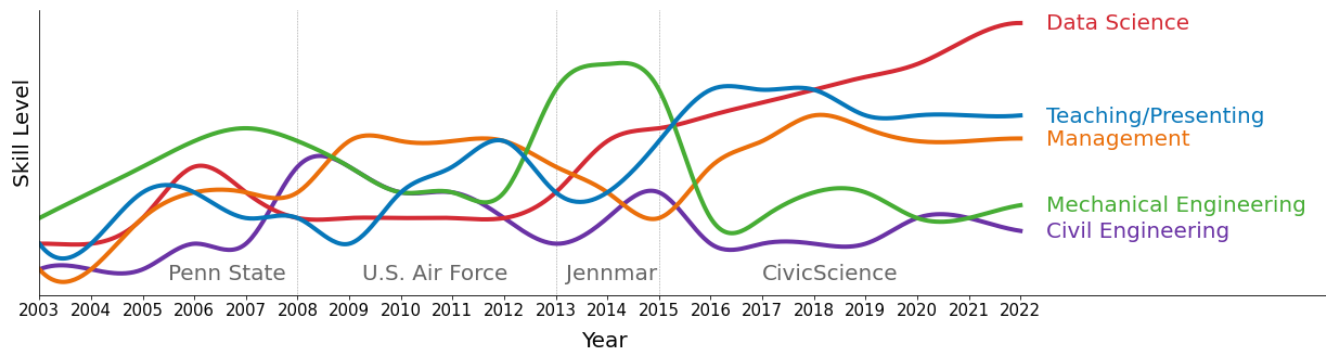
(575) 791-2497

### Summary

Adept data scientist with over seven years of experience in quantitative market research. Work includes interfacing with clients, designing research questions and projects, building and automating reports and statistical models, training new hires, and contributing to company-wide strategic decisions. Eclectic background also includes civil and mechanical engineering, military training, and teaching. Looking to contribute data storytelling skills to meaningful causes.

### Skills Timeline

A visual overview of time spent learning/using professional skills:



### Work Experience

#### CivicScience

- Data Scientist
- Research Manager
- Data Analyst

7+ years designing and programming quantitative research surveys and analyzing complex response data in a fast-paced startup environment. Methods include segmentation, clustering, linear regression, A/B testing, price elasticity, KANO Analysis, and change point detection.

Built tools to connect fairly disparate sources such as shell script outputs, SQL databases, our R API, and the client-facing data portal. These tools include a method to programmatically generate the SQL required to program certain types of surveys, a modification to the R API to handle customized data inputs, and a script to automate statistical significance tests for a core product. Trained other analysts on the usage of these tools and multiplied the productivity of the team.

Capstone to-date is an R package that automates detection of trend changes within the general population and segments, then exports data visualization to native Excel charts. It is the backbone of "The 360 Report," a new product which is generating substantial industry interest.

#### Jennmar

- Mechanical Engineer

Learned nuances of mining industry while gaining experience designing, prototyping and testing. Reverse-engineered/improved a popular product which halved its in-field setup time.

#### United States Air Force

- Asst. Prof. of Aerospace Studies
- Environmental Management
- Construction Estimates

Studied fundamentals of Civil Engineering, Asset Management, and Environmental Compliance. Became the Officer in Charge of a team of Airmen deployed to Oman.

R.O.T.C instructor at Bowling Green State University in Ohio. Directly in charge of welfare & training of 75 cadets at "boot camp," ranked 2/18 officers.

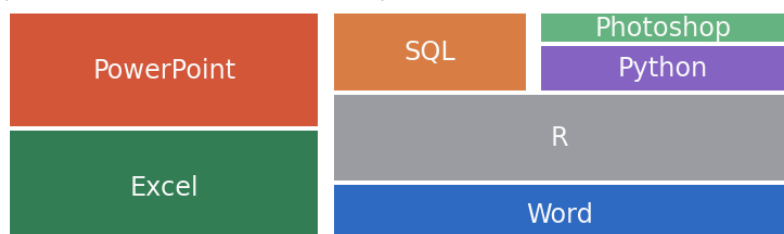
### Education

#### Penn State University

- B.S. Mechanical Engineering
- Minor - Engineering Mechanics
- Minor - Military Studies

### Languages/Programs

(Size denotes relative level of skill.)



Résumé programmed in Python with Jupyter Notebooks. Open the QR or visit:

<https://github.com/itllbefine/resume>