

PETER GATES

DOCTORAL GRADUATE, DATA SCIENTIST 📞 (330) 815 7635

◦ DETAILS ◦

(330) 815 7635
hello@peti.work

◦ LINKS ◦

[LinkedIn](#)
[Github](#)
[Portfolio](#)
[Dissertation](#)
[Curriculum Vitae](#)

◦ SKILLS ◦

Data Science
Predictive Modeling
Statistical Modeling
Data Analysis
Python
R
Git
Linux Server
SPSS Statistics
MySQL
Docker
MatLab

◦ LANGUAGES ◦

English
Hungarian
German

◦ HOBBIES ◦

Activities: Weightlifting, Hiking, Backpacking
Tech: FreeNAS home server, Web hosting, Python projects
Entertainment: Science fiction books, Computer games

👤 PROFILE

Looking to join a highly motivated team working towards improving the health of populations through research and data science.

Specialized in: Biomedical Science with concentration in Exercise Physiology and Statistical Modeling

Interests: Data science, model engineering, feature engineering, chronic disease, obesity, physical activity, nutrition, neural connectivity

🎓 EDUCATION

PhD, Kent State University, Kent

August 2017 — August 2021

PhD in Biomedical Sciences, concentrating on Exercise Physiology and Statistical Modeling. Investigated the impact of a special motorized bike on elderly population displaying Parkinsonian motor symptoms. Created statistical model and software to relationship between predictor and outcome variables.

Masters, University of Akron, Akron

August 2015 — May 2017

Masters in Biology. Investigated the effect of exercise on obese zebrafish exposed to Bisphenol A.

Bachelors, Kent State University, Kent

August 2007 — May 2012

Graduated Summa Cum Laude

Exercise Science, Exercise Physiology and Premedical concentration

📁 EMPLOYMENT HISTORY

Lead Data Scientist at Pillar.gg, Remote

November 2020 — Present

Data Scientist for Pillar.gg, a startup that aims to create automated highlight videos of livestream videos. I lead a small group of engineers and junior data scientists in creating their first production grade model from scratch.

Technology used: Netflix's Metaflow project, Jupyter notebook for feature engineering and data exploration, AWS infrastructure for training and deploying models

★ DATA PROJECTS

Dynamic Bike Analyzer

2021 — 2021

Wrote [python software](#) to guide user and automate data cleaning, exploratory data analysis, and data visualization of time series output. Is the defacto method for reviewing experiments in our lab.

Technology used: bash, python, pandas, matplotlib, seaborn

Covid Dashboard

2020 — 2020

To address exaggerated and inaccurate news my friends were exposed to during the beginning of the COVID epidemic I built and hosted one of the first automatically

updating [COVID dashboards](#), utilizing datasets from the New York Times and Our World in Data.

Technology used: shell scripting, SQL, python, pandas, plotly, streamlit

Venmo Requestor

2020 — 2020

Meal delivery was common during lockdown, this led to many arguments on who owed what to the main payer. I implemented a [personalized version](#) of Splitwise (a payment splitting app). Used heavily in my family + friends circle.

Technology used: shell scripting, SQL, optical character recognition with pytesseract, API, streamlit, pandas, numpy

Dance Entropy Calculator

2019 — 2019

[Calculates](#) sample and approximate entropies from the raw output of Noraxon accelerometer recordings. Laid the foundations for analysis of entropy of movement during dance. Results were presented as a research poster at the South East Regional International Society for Computational Biology symposium.

Technology used: R, tidyverse, ggplot, lubridate,

Tremor Entropy Calculator

2019 — 2019

Novel [python script](#) to calculate approximate and sample entropies from raw output of a Parkinson's tremor device. Laid the foundations for future research into effects of dance on motor symptoms

Technology used: Python, scikit, pandas, numpy, signal filtering (butterworth filter), evidence based programming

Dynamic Bike Extractor

2019 — 2019

Python based software that [restructures](#) raw dynamic bike 2.0 output files to format that can be read by a Matlab entropy script. Used by all bike 2.0 research in our lab to get files ready for entropy analysis.

Technology used: Python, pandas, numpy, PySimpleGUI

★ CERTIFICATIONS

Data Scientist in Python Path

March 2020 — March 2021

Seeing the widespread use of python in data science motivated me to begin the Data Scientist in Python paths. Later I introduced this program to our lab, where undergraduates now take a course in the basics of data analysis.

[Dataquest.io](#) (Mar 2021) and [Datacamp](#) (Mar 2020)

Data Scientist with R Track

November 2019

The research in our lab involves heavy data cleaning, processing, and analysis which made realize the importance of structured data science and provided the motivation to learn it in R.

[Datacamp](#)

📄 REFERENCES

- References available upon request