

Dominic Burkart

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Summary

Over 5 years of experience working with big data, machine learning, and natural language processing. Other experience includes full-stack web development, SQL database design and development, and statistical data analysis.

- Languages: Python, Javascript, R, Rust, Java, Erlang.
- Packages and Frameworks: Pandas, Numpy, Scikit-learn, TensorFlow; Node.js, React, p5; Git, Docker, Travis CI; Rails, Django, Postgres, MongoDB, AWS and Google Cloud.

Work Experience

June 2017 – June 2018: **Lab Manager and Researcher**, Princeton Social Neuroscience Lab.

- implemented various modular natural language processing analyses (distributed Python).
- performed full stack web development (React on Node.js and Rails).
- collected and modeled fMRI, behavioral, and social network data (Python, R, Java).
- performed research and supervised lab's research assistants.

June 2015 – June 2017: **Research Assistant**, New York University's Social Perception and Evaluation Lab.

- provided data support by creating the lab's Twitter social network collection and analysis pipeline (Python and Java). >2.4 billion streamed tweets to date, social network topology for thousands of target users.

June 2014 – July 2015: **Research Assistant**, Kansas University Medical Center's Bruce Neuroscience Cooperative.

- Wrote literature reviews, collected participant data, wrote analysis scripts (Python, R).

September 2013 – June 2014: **Research Assistant**, University of Missouri: Kansas City's Behavioral Rewards and Incentive Networks Lab.

- Collected and cleaned behavioral and neural data.

Code Examples

- Classification of Autobiographical Text, Python. [Code](#)
- Inference Engine, Rust. [Code](#)
- Leornic Low Performance Cluster, Erlang. [Code](#)
- Twitter Network Collector, Java. [Code](#)

Education

2015 – 2017

New York University, B.A. Psychology (May 2017, GPA 3.6), minor in French, focus in Data (example courses: Data Structures, Discrete Math, Advanced Statistics).

2013 – 2015

University of Missouri: Kansas City, Honors Student of Psychology and English.

See my [Curriculum Vitae](#) for additional information, e.g. scientific publications.