KARLA FETTICH, PHD

I am enthusiastic about using my skills, expertise and time to make a lasting positive impact in the community. Professionally, my work seeks to improve healthcare for aging individuals, and has earned an Excellence in Technology Award for Dignity in Long-Term Care. Personally, I coordinate efforts to increase diversity in the Philadelphia data science community, reduce the number of homeless animals in the city and facilitate care and recovery for those experiencing opioid addiction.

EDUCATION

2016 2011

PhD, Psychology Neuroscience

Temple University

Philadelphia, PA

- · Dissertation: Coordinated neuromorphology in the development of social information processing
- · Advanced Training Institute on Exploratory Data Mining in Behavioral Research

2009 2008

MA, Social Sciences (Psychology)

The University of Chicago

♀ Chicago, IL

• Thesis: Predictors of Suicidality: Experiences of weight-related stigma in candidates for bariatric surgery

2005 2002

BA, Psychology

Jacobs University Bremen

Paremen, Germany



PROFESSIONAL EXPERIENCE

present 2021

Senior Data Scientist

AmeriHealth Caritas

- Newtown Square, PA
- · Developed machine learning models in R for risk stratification of CHC members, including both modifiable and non-modifiable risk factors
- · Conducted exploratory data mining analyses, created insights decks and presentations to internal clients, and led a collaborative analytics project
- · Improved analytics efficiency by reducing meeting overhead, automating workflows, developing solutions to move away from legacy systems, and coordinating with other teams to facilitate access to needed tools
- · Led knowledge-sharing sessions on modern tools in data science for colleagues across multiple teams

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CONTACT

- kfettich at gmail dot com
- github.com/kfettich

I speak several languages including German (native), Romanian (native), French (basic) and Spanish (basic).

SKILLS

SPSS Python SOL NoSQL

2021 2015

Head of Analytics & Algorithm Development

Orchestrall. Inc.

Och Conshohocken, PA

- · Lead healthcare data science consulting projects to derive insights from clinical data and multidisciplinary teams
- · Develop and test predictive models for operational implementation
- · Select optimal tools for statistical modeling, including decision trees, logistic regression, conditional inference forests, multiple imputation
- · Develop algorithms to power intelligent healthcare applications for the senior care market, including outcome prediction, anomaly detection, and logistics optimization
- · Conduct end-to-end analyses including study design, data identification/collection, ETL, analysis, and communication of findings
- · Implement analytical models into production through collaborations with the software development team

LEADERSHIP

present 2019

Project Leader

PAWS Data Pipeline

• Code for Philly

- · Lead a team to create a 360-degree view of PAWS' constituents to help development and operations
- · Work closely with project management team, peer data scientists, engineers, developers and Philadelphia Animal Welfare Society representatives to build a data lake
- · Oversee team efforts in data processing, cleansing, and verifying data integrity

present 2018

Organizer

R-Ladies Philadelphia

Philadelphia, PA

- · Work to increase gender diversity in the data science community in Philadelphia
- · Create learning, networking and leadership opportunities for over 1000 members via monthly meetups focused on R and collaborations with other data groups in the city

present 2018

Lead Datathon Organizer

Collaborate with non-profit organizations to articulate business questions, translate them into viable analytics projects for volunteer data scientists; coordinate the volunteer effort, and help data scientists translate their findings into into clear and actionable business insights

Philadelphia, PA

- · Philadelphia Animal Welfare Society: Animal Shelter Volunteer Engagement (2018) and Animal Adoptions (2019)
- · Health Federation of Philadelphia, Prevention Point, the City of Philadelphia: Opioid Epidemic (2020)
- · Judge Accountability Table: Judicial patterns in Philadelphia courts (2021)

I eniov learning via hands-on projects that have a real and positive impact, and I seek to create opportunities to make this type of learning available to the wider community.



2016 | 2013

Graduate Research Assistant

Neurocognition Lab

♥ Temple University

- Introduced and applied machine learning techniques (e.g. support vector machines, multivoxel pattern analysis, graph theory, network analysis) and high performance computing tools
- · Assessed new data sources for value creation, attracting new research opportunities through a large, multi-site research network
- Evaluated and communicated technical advantages and tradeoffs between statistical models
- Solved difficult, non-routine analysis problems using large, complex data sets

2013 | 2011

Graduate Clinical Research Assistant

Mechanisms of Affect Dysregulation Lab

♥ Temple University

- Supported and executed a wide range of clinical psychology studies including survey research, clinical treatment trials, neuroimaging studies, and secondary data research
- Designed and conducted a neuroimaging research study assessing affective risk factors in clinical populations
- Collaborated with the research coordinator, graduate and undergraduate students, as well as researchers from other sites to deliver high-quality peer-reviewed publications and academic conference presentations

2011 | 2009

Lead Clinical Research Coordinator

Adult Eating and Weight Disorders Clinic

The University of Chicago

- Planned and conducted statistical analyses of cross-sectional, time series, epidemiological, health outcomes and clinical data
- Optimized clinical participant recruitment and retention through data analytics
- Coordinated recruitment, screening, intake, assessment, treatment and follow-up stages several research projects, including a large NIMH-funded clinical trial and pilot studies using psychophysiological data (fMRI, RSA)
- Contributed to manuscript preparation for peer-reviewed publications and gave conference presentations

I have extensive experience with academic research, including clinical trials and studies using neuroimaging and psychophysiological data.

TEACHING

2014

Graduate Teaching Assistant and Lab Instructor

Statistics

♀ Temple University

- Taught weekly introductory statistics lab sections (75 undergraduate students) with positive student feedback
- Provided one-on-one tutoring and exam preparation on an as-needed
- Administered and corrected exams and liaised between students and the course instructor

CONTINUING EDUCATION **Health Insurance** present Online AHIP 2021 · Professional, Health Insurance Advanced Studies (in progress) **Data Science** 2021 Online Coursera · Microsoft Azure Machine Learning Studio: Predictive Modeling, Machine Learning Pipelines, Deep Learning Inference · Causal Inference: Inferring Causal Effects from Observational Data VOLUNTEER WORK Volunteer, Mentor present Philadelphia, PA Philadelphia Animal Welfare Society (PAWS) 2016 SELECTED PUBLICATIONS The interactive effects of peers and alcohol on functional brain 2019 connectivity in young adults Neurolmage At risk of being risky: The relationship between "brain age" under 2017 emotional states and risk preference Developmental Cognitive Neuroscience Amygdala hyperactivation to angry faces in intermittent explosive 2016 disorder Journal of Psychiatric Research Emotion regulation deficits in intermittent explosive disorder 2014 Aggressive Behavior Loneliness mediates the relationship between emotion dysregulation 2013 and bulimia nervosa/binge eating disorder psychopathology in a clinical sample Eating and Weight Disorders Coping With Obesity Stigma Affects Depressed Mood in African-2012 American and White Candidates for Bariatric Surgery Obesity Correlates of Suicidal Ideation and/or Behavior in Bariatric-Surgery-2012 **Seeking Individuals With Severe Obesity** Crisis Factors Associated with Suicide Ideation in Severely Obese Bariatric 2012 **Surgery-Seeking Individuals**

Suicide and Life-Threatening Behavior

Made with the R package **pagedown**.

CV Source Code.

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