

KARLA FETTICH, PHD

I am enthusiastic about using my skills, expertise and 10+ years of healthcare analytics experience to make a lasting positive impact in the community. I lead teams to develop technical, analytics and ML/AI solutions, both professionally and through volunteer work. I have contributed to efforts to [increase diversity in the Philadelphia data science community](#) and provide analytics insights to non-profit organizations in the greater Philadelphia area through [datathons](#) and [software product development](#).



EDUCATION



Certifications

- Managed Healthcare Professional (MHP) (AHIP; in progress)
- AI Applications for Growth ([Northwestern University; 2023](#))
- Professional, Health Insurance Advanced Studies (PHIAS) ([AHIP; 2021](#))



Formal Education

- PhD, Psychology/Neuroscience (Temple University, 2011-2016)
- MA, Social Sciences/Psychology (The University of Chicago, 2008-2009)
- BA, Psychology (Jacobs University Bremen, 2002-2005)



HEALTHCARE ANALYTICS EXPERIENCE

present
|
2023



Lead Data Scientist

AmeriHealth Caritas

📍 Newtown Square, PA

- Serve as technical data science lead for cloud migration to Databricks and MS Azure platforms, supporting DevOps/MLOps, governance and change management processes
- Design and manage the development of ML/AI products and solutions, incl. collaborating with stakeholders, process mapping, project planning, pre-deployment code review, and post-deployment validation

2023
|
2021



Senior Data Scientist

AmeriHealth Caritas

📍 Newtown Square, PA

- Developed ML models in R for risk stratification of LTSS 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

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📄 [Download a PDF of this CV](#)

SKILLS

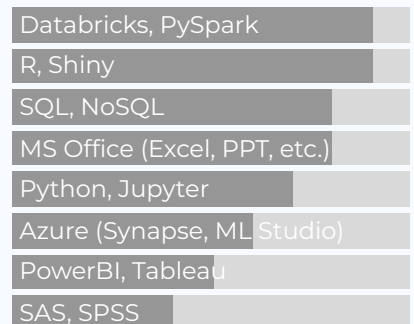
ML/AI/STATS



LEADERSHIP



TECHNICAL



2021
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2015

● Head of Analytics & Algorithm Development

Orchestrall, Inc.

📍 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; our solution earned the [Excellence in Technology Award for Dignity in Long-Term Care](#)
- 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

2016
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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

● Prior experience

- Graduate Clinical Research Assistant (Mechanisms of Affect Dysregulation Lab, Temple University; 2011-2013)
- Graduate Teaching Assistant and Lab Instructor (Temple University; 2014)
- Lead Clinical Research Coordinator (Adult Eating and Weight Disorders Clinic, The University of Chicago; 2009-2011)

I have 14 years of experience conducting academic research, including clinical trials and studies using neuroimaging and psychophysiological data.



COMMUNITY INVOLVEMENT & LEADERSHIP

present
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2019

● Project Leader

[PAWS Data Pipeline](#)

📍 Philadelphia, PA

- Lead a team of volunteer developers to create a [360-degree view of PAWS' constituents](#) and a data integration process from independent systems into Salesforce

2023
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2018

● Organizer & Board Member

[R-Ladies Philadelphia](#)

📍 Philadelphia, PA

- Increased gender diversity in Philadelphia's data science community by creating learning, networking and leadership opportunities for over 1500 members via technical events and collaborations with other data groups

I enjoy 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.

2020
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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 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 \(2021\)](#)

2022
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2016

● Dog Care Volunteer, Mentor

[Philadelphia Animal Welfare Society \(PAWS\)](#)

📍 Philadelphia, PA



PAPERS & PUBLICATIONS

2019
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2009

● [The interactive effects of peers and alcohol on functional brain connectivity in young adults \(2019\)](#)

[At risk of being risky: The relationship between “brain age” under emotional states and risk preference\(2017\)](#)

[Dissertation: Coordinated neuromorphology in the development of social information processing \(2016\)](#)

[Amygdala hyperactivation to angry faces in intermittent explosive disorder \(2016\)](#)

[Emotion regulation deficits in intermittent explosive disorder\(2014\)](#)

[Loneliness mediates the relationship between emotion dysregulation and bulimia nervosa/binge eating disorder psychopathology in a clinical sample\(2013\)](#)

[Coping With Obesity Stigma Affects Depressed Mood in African-American and White Candidates for Bariatric Surgery\(2012\)](#)

[Correlates of Suicidal Ideation and/or Behavior in Bariatric-Surgery-Seeking Individuals With Severe Obesity\(2012\)](#)

[Factors Associated with Suicide Ideation in Severely Obese Bariatric Surgery-Seeking Individuals\(2012\)](#)

[MA Thesis: Predictors of Suicidality: Experiences of weight-related stigma in candidates for bariatric surgery\(2009\)](#)

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[CV Source Code](#).

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