

# John E. Schlerf, Ph.D.

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Thoughtful and hands-on leader, looking to solve challenging, high-impact problems.

## Skills and Experience

*Management* – Hiring, Onboarding, Offboarding, Performance Reviews, Mentorship

*Programming* – Python, Matlab, Scala, Git, Docker, Scikit-Learn, Tensorflow, Keras

*Big Data* – Spark, SQL (Snowflake, Redshift, PostgreSQL, Teradata), AWS (S3, EMR)

*Experimentation* – Hypothesis Generation, Test Design, Power Analysis, A/B Testing

*Data Analysis* – Statistics and Machine-Learning, Hypothesis Testing, KPI Definition

## Experience

*Data Scientist, Risk: Square (Cash App)* Apr 2019-Aug 2019

- Trained and evaluated models to prevent Account Takeover and Fraudulent Activity
- Designed, built, and deployed real-time signals to indicate risky behaviors
- Create ETLs to aggregate and summarize data for modeling and analysis

*Senior Manager, Data Science: Capital One Finance* 2017-2019

- Lead a team of 6 data scientists working to combat fraud in credit card applications
- Recruited, interviewed, and hired data scientists, analysts, and product managers
- Trained and evaluated models to detect fraud from stolen and synthetic identities
- Deployed machine-learned models to production in real-time APIs
- Conducted code reviews and improved team collaboration through Github
- Collaborated with engineers, product managers, and business analysts

*Manager, Data Science: Capital One Finance* 2015-2017

- Extracted insights on customer and merchant behavior from credit card transactions
- Collected and improved labeled data using crowdsourcing (esp. Mechanical Turk)
- Presented findings and techniques at internal and external conferences
- Mentored junior colleagues and direct reports on transitioning from academia

*Manager, Quantitative Research and Analytics: eBay Advertising* 2013-2015

- Mentored colleagues on experimentation, data analysis, and automation
- Communicated analytic and experimental insight to diverse business audiences
- Coordinated A/B testing and analysis of advertising performance on and off eBay

*Research Scientist (Postdoctoral): Johns Hopkins University* 2010-2012

- Developed experimental programs for robotic devices, and brain stimulation/EMG
- Programmed data acquisition and analysis tools in Matlab, Python, and Simulink
- Published in peer-reviewed journals, and received a competitive NIH fellowship

*Graduate Student: University of California, Berkeley* 2004-2010

- Designed and implemented experiments using robotics, motion capture, and fMRI
- Programmed movement learning games in Python/Pygame and C++/OpenGL
- Performed all aspects of hypothesis generation, data collection, and analysis

## Education

*Ph.D. in Neuroscience: University of California, Berkeley* 2010

*Sc.B., Magna cum Laude in Cognitive Neuroscience: Brown University* 2002