

Stephen Klosterman

Cell phone: 513-503-1694

<https://www.linkedin.com/in/stephenklosterman>

steve.klosterman@gmail.com

<https://www.stevklosterman.com/>

Experience

Earthshot Labs

Principal Scientist

Remote

November 2021 – Present

- First scientist at company after seed funding; built team of 6 PhD scientists
- Developed the first science products to predict outcomes of forest regeneration globally and presented at international conference
- Established research partnerships with other leading scientists in forest ecology

Tala

Senior Data Scientist

Santa Monica, CA

September 2019 – November 2021

- Lead individual contributor on a team that ideated, built, deployed, and monitored a predictive model for a new business vertical, estimated to save \$200k/month in loan servicing costs
- Built and deployed a credit underwriting model that made over 750k loan decisions across 5 months, with a 2-point improvement in ROC AUC over the previous model version

CVS Health

Data Scientist, Machine Learning Team

Northbrook, IL

December 2017 – August 2019

- Built hospital readmissions risk model, scoped to create \$20M in value as part of an intervention program
- Created prioritization and scheduling logic for telephonic outreaches to customers, estimated to increase the success rate of the campaign by up to 9% per month

Harvard University

PhD Researcher, Mentor, Teaching Assistant

Cambridge, MA

September 2011 – January 2018

- Designed, built and flew unoccupied aircraft systems to observe leaf life cycles, collecting and analyzing over 50 acquisitions of digital images, creating orthomosaics and georeferencing them, and analyzing them in Matlab, R, and Python
- Discovered spatial and temporal correlations of leaf life cycle events to plant species and environment, with peer reviewed journal publications as first author (4) and coauthor (5)
- Won best oral presentation in physiological ecology at the Ecological Society of America, NASA Earth and Space Science Fellowship, and “best in show” data science project, leading a team of 2 software engineers

Skills

Tools: Python, pandas, scikit-learn, Spark, AWS, Jupyter, Matplotlib, Matlab, R, SQL, Google Earth Engine

Techniques: data visualization, regression and classification methods such as regularized linear and logistic regression and tree-based models, SHAP analysis, uplift modeling, linear programming

Data specialties: GIS, maps, remote sensing, imagery, spatial data, environmental and weather data

Education

PhD Biology, Harvard University

Cambridge, MA, January 2018

MS Atmosphere and Energy, Stanford University

Stanford, CA, May 2011

MS Hydrology, University of Cincinnati

Cincinnati, OH, December 2009

BA Math and BM Music, Oberlin College

Oberlin, OH, May 2004

Book

Klosterman, Stephen. *Data Science Projects with Python: A case study approach to successful data science projects using Python, pandas, and scikit-learn*. Packt Publishing Ltd., 2019. ISBN: 9781838551025.