

thom lake

statistics | machine learning | algorithms

contact

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269.779.1495

blog

thomlake.github.io

code

github.com/thomlake

programming

Python
Scala
JavaScript
Julia
C/C++
SQL

tools

PyTorch
Numpy
Scipy
Sklearn
Spark
Tensorflow
Matplotlib
L^AT_EX

interests

deep learning, neural networks, natural language processing, recommender systems, probabilistic graphical models, representation learning, question answering, learning to rank, reinforcement learning, interactive learning systems, interpretability

experience

2016–now	Amazon <i>Machine Learning Scientist</i> Deep Learning for content ranking, product recommendation, and representation learning on the Amazon Homepage	Austin, Texas
2014–2016	Atlas Wearables <i>Lead Data Scientist</i> Dynamic Bayesian networks for one-shot exercise classification, repetition counting, and form analysis on embedded devices	Austin, Texas
2013–2014	Zoetis <i>Data Scientist</i> Normalizing free form text using statistical NLP and heuristics	Kalamazoo, Michigan
2010–2013	WMU Risk Avoidance and Mitigation Department <i>Research Assistant</i> Modeling agricultural disease risk with neural networks	Kalamazoo, Michigan
2010	Missouri University of Science and Technology <i>NSF Undergraduate Research</i> Outlier detection in wireless sensor networks	Rolla, Missouri

education

2012–2015	MS Computer Science Thesis: <i>Analyzing repetitive sequences with structured dynamic Bayesian networks</i>	Western Michigan University
2009–2012	BS Computer Science Minor: Mathematics Senior Project: <i>Semi-supervised sentiment analysis with noisy labels</i>	Western Michigan University

publications and patents

2018	Attention Based Collaborative Filtering <i>Under review by AISTATS 2019, preprint available upon request</i>
2015	US 2015/0005911 A1 Portable Computing Device and Analyses of Personal Data Captured Therefrom