Edgar Xi

Curriculum Vitae

Personal Information

Address **5553 Beeler St**, *Pittsburgh, PA 15217, USA*.

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Education

2015-2019 **Carnegie Mellon University**, *Pittsburgh, PA*.

B.S., *Machine Learning, Statistics*.

Research Interests

- Machine Learning methods for infrastructure analysis
- Stochastic regularization methods for neural networks
- Interpretability of nonlinear classifiers in medical diagnosis settings
- Knowledge representation with semi-supervised learning algorithms
- NLP analysis of EHR records

Research Experience

November 2017 - Present — University of Pittsburgh, Prof *Kayhan Batmanghelich*

- Probabilistic Graphical Modeling, Medical imaging, Bioinformatics

January 2017- August 2017 — Carnegie Mellon University, Prof. *Zico Kolter*

- Machine Learning, Transportation & Mobility

January 2017- May 2017 — Carnegie Mellon University, Prof. *Min Xu*

- Deep Learning & Computational Biology

October 2016-January 2017 Carnegie Mellon University, Prof. *Anind Dey*

- Applied Machine Learning & Human-Computer Interaction

Publications

Oct 2017 Bhatt, U., **Xi, E.**, Mani, S., Kolter, J. *"Intelligent Pothole Detection and Road Condition Assessment"* in DSSG@UChicago, 10 Oct 2017 arXiv:1710.02595

Talks

October 2017 Bloomberg: Data for Good Exchange (Selected presenter). *Mobility, Training, & Cities*

September 2017 University of Chicago: Data Science Conference for Social Good. (Selected speaker) *Short Talks: Case Studies*

July 2017 University of San Francisco: Data Science Annual Conference *(Invited presenter)*

Research Projects

Nov 2017 Capsule Network Performance on Complex Data

March 2017 Expectation-Maximization Variant of Principle-Components-Analysis

January 2017 SVM's for assessing road conditions from smartphone sensor data

October 2016 Heatmap based methods for predicting stress from smartphone usage

Industry Experience

January 2017 - Present Technical Cofounder & lead data scientist, **Percepsense**

May-Sep 2017 Machine Learning Engineering Intern, **Curb.ai**

May-August 2016 Software Engineering Intern, **iTravelBuy**

Skills

Languages Python, Java, R, Matlab, C/C++, MySQL, Julia, LaTeX

Frameworks Keras, Tensorflow, Pytorch, Pandas, Scikit-learn, Django, AWS

Systems Linux, OSX

Coursework (graduate)

Fall 2017 Deep Learning (10-707) *R. Salakhutdinov*

Fall 2017 Modern Regression (36-607) *L. Wasserman*

Spring 2017 Machine Learning (10-601 *M. Gormley*

Coursework (undergraduate)

Fall 2017 Statistical Computing (36-350)
Spring 2017 Neural Computation (15-386)
Spring 2017 Statistical Inference (36-226)
Fall 2016 Data Science (15-388)
Fall 2016 Calculus in 3 Dimensions (21-259)
Fall 2016 Probability Theory (36-225)
Spring 2016 Matrix Theory (21-241)
Fall 2015 Principles of Computation (15-122)
Fall 2015 Discrete Math (21-127)

Grants, Honors & Awards

National Science Foundation, I-Corps site team
Carnegie Mellon University, SURG research grant
Project Olympus, Spark award

References

Dr. Zico Kolter, Ph.D
Assistant Professor
Machine Learning Department
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