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

Dec 2017	**Xi, E.**, Bing, S., Jin, Y. *"Capsule Network Performance on Complex Data"* in preprint. arXiv:1712.03480
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

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	Pytorch, Tensorflow, Keras, 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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