Eric Lei

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Research Interests

Applied Machine Learning.
Prediction and clustering applied to real-world data sets in domains such as radiation, medicine, and finance. Regression and classification by Bayesian models. Data mining by unsupervised or semi-supervised learning and interpretable techniques.

Education

2014–present **PhD**, *Carnegie Mellon University*, Pittsburgh.
Machine Learning. Graduation expected in Spring 2019. Advisor: Artur Dubrawski.

2010–2014 **BS/BA**, *University of Washington*, Seattle.
Computer Science, Mathematics, Economics. Entered at age 16.

Experience

2014 **Research Intern**, *Allen Institute for Artificial Intelligence*, Seattle.
Conducted research in natural language processing.

2012–2013 **Research Intern**, *Microsoft Capital Markets*, Redmond.
Performed economic and financial forecasting using a global macro approach.

2012 **Software Engineering Intern**, *Qualcomm*, San Diego.
Developed internal tools for the stability team.

Publications

- Lei, Eric, et al. (2016). Robust detection of radiation threat using uncertain censored energy windows. *IEEE Nuclear Science Symposium*, Strasbourg, France.
- Lei, Eric, et al. (2015). Radiological threat detection by canonical correlation analysis. *DNDO/NSF Academic Research Initiative*, Dallas, TX.
- Lei, Eric & Karlin, Anna (2015). On a competitive secretary problem. In *AAAI* (pp. 944-950).

Skills

Programming Java, MATLAB, Python, R, Scala, C#

Awards

2014 **Outstanding Senior in Computer Science & Engineering**, *University of Washington*.
One of two recipients that year of the most prestigious undergraduate award in the Department of Computer Science & Engineering.

2014 **Outstanding Scholar in Economics**, *University of Washington*.
Most prestigious undergraduate award in the Department of Economics.

2012 **Junior Medalist**, *University of Washington*.
Awarded for best academic performance among all juniors.

2011 **Freshman Medalist**, *University of Washington*.
Awarded for best academic performance among all freshmen.

Teaching

Carnegie Mellon University

- Statistical Machine Learning, teaching assistant (Spring 2017).
- Probability and Computing, teaching assistant (Fall 2016).

University of Washington

- Introduction to Machine Learning, teaching assistant (Fall 2013).