Elaine K. Lee

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Experience

Civis Analytics   **April 2014 – Present**
Data Scientist – R&D   **Chicago, IL**
- Developed two automated data science workflows (continuous modeling and transfer learning) for a production codebase in Python and worked with software engineers to integrate them as new features in the Civis platform.
- Trained colleagues in command line tools, internal Civis software, and Python via brownbags and one-on-one mentorship.
- Produced models and analysis for internal use.
- Interviewed candidates for positions across the entire company and recruited at college career fairs.
- Ran a company-wide weekly meeting for discussing machine learning papers.

Rifiniti, Inc. *(MassChallenge 2013 Startup Accelerator Winner)*   **June 2013 – March 2014**
Machine Learning Developer (*Intern: June – August 2013*)   **Boston, MA**
- Developed algorithms in R and Java for classification and missing data problems.
- Contributed to developing and supporting the full software stack including the user interface (JavaScript) and back end (Unix, MySQL, Apache Tomcat).
- Recruited college students and mentored student interns.

US Department of Defense   **July 2010 – August 2012**
Operations Research Analyst   **Hanscom Air Force Base, MA**
- Performed over 50 cost estimates to support reductions to Air Force-wide staffing efforts.
- Estimated the cost for the development of a theatre deployable communications system.
- Determined the most cost effective bid for a $76 million contract as lead cost analyst.
- Co-developed and co-taught software classes (Microsoft Excel, Deltek wInsight) to 20 colleagues.

Education

Harvard University   **2012 – 2013**
AM Statistics   **GPA: 3.63/4.00**
- Project: "Analyzing Hubway Trip Data Using Principal Component Analysis (PCA)"
  - Created dataset by merging 500,000+ Hubway bikesharing trip records with NOAA historical weather data. Performed PCA using Singular Value Decomposition in R and analyzed resulting components for bikesharing patterns.
  - Featured in Boston.com's Brainiac Blog (August 2, 2013).
- Coursework: Probability, Time Series Analysis, Environmental Modeling, Spatial Statistics, Generalized Linear Models

Carnegie Mellon University   **2006 – 2010**
BS Mathematical Sciences – Operations Research   **GPA: 3.54/4.00**
- Minors: Computer Science, Statistics
- Judith Resnik Challenger Scholarship; University Honors, Research Honors, Dean's List 5 semesters
- Coursework: Regression, Data Mining, Statistical Learning, Great Theoretical Ideas in Computer Science

Honors

2015 Open Data Science Conference speaker
2012 AAUW Selected Professions Fellowship
2010 CMU Open Innovation Challenge – 1st Place

2009 US Department of Defense SMART scholar
2009 Vanguard Women in Information
Technology scholar

Skills

Programming/Scripting/Technology: Python, R, Java, SQL, Git, Bash, MATLAB, C/C++, Microsoft Excel VBA
Volunteering: CMU Alumni Admissions Interviewer & College Fair Representative, 2010-2013