# Elton Y. Wong

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## Machine Learning/Deep Learning/Data Science
- Senior data scientist with 3 years' experience in industry
- Independent research and self-study of deep learning with TensorFlow and Keras
- Harvard Master's degree focused in biostatistics, epidemiology, decision science
- Extremely fast learner with excellent quantitative ability (SAT Math: 790/800), polished communication skills from experience as attorney in commercial litigation

## Technical Toolbox
Python/Cython (esp. data science packages), TensorFlow and Keras, SQL, Spark, R, some C++

## Experience

**Aspen Technology, Inc., Bedford, MA**                                                          **3/16-pres.**
Senior Data Scientist
- Research and implement machine learning and feature engineering algorithms; write production code in Python/Cython for Root Cause Analytics, a software package for analysis of time series sensor data in chemical and oil/gas plants.
- Work closely with customers and academic partners; attend conferences to guide development/research.

**Independent Research/Self-Study in Deep Learning**                                             **4/17-pres.**
- Built specialized computer for deep learning with NVIDIA GPU; study/conduct research of convolutional nets, LSTMs, residual nets, and other deep learning topologies with TensorFlow and Keras.
- Analyze satellite, medical, and other images, and seismic, audio, financial, and other time series data (e.g. for Kaggle competitions); study Deep Learning (Goodfellow et al.) and current research papers.

**Massachusetts Department of Public Health, Boston, MA**                                        **6/12-12/12**
- Practicum: Comprehensively analyzed MDPH policy on human-subject research in light of U.S. Food and Drug Administration and other related federal rules; made policy recommendations.

**Jenner & Block LLP, Chicago, IL**                                                             **9/05-9/08**
Associate Attorney (Litigation)
- Interviewed and counseled clients, defended depositions, and prepared expert witnesses; developed facts, and researched and formulated arguments in multi-million-dollar commercial cases.

## Education

**Stanford University (via Coursera)**                                                          **6/2015**
Completed Andrew Ng's (founder of Google Brain) machine learning course in one month, grade: 96%
- Coded from scratch in GNU Octave/MATLAB: linear/logistic regression, neural nets, support vector machines, k-means clustering, recommender systems, anomaly detection, map/reduce.

**Harvard University (T.H. Chan School of Public Health)**                                       **3/2013**
Master of Public Health
- 3.89 GPA: Biostatistics, epidemiology, decision science, Markov models, economics/policy
- Hypothesis testing, decision trees, cost/benefit analysis

**University of Iowa College of Law**                                                           **5/2005**
Juris Doctor (J.D.) with Distinction (approx. top 15%)

**Iowa State University of Science and Technology**                                             **5/2001**
Bachelor of Science, Genetics and Philosophy

## Interests
Mixed martial arts, classical piano, electric guitar, designing and building vacuum-tube electronics