Dapeng (Amy) Li **M.S. Candidate in Computer Science** **Oregon State University**

PERSONAL
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EDUCATION

Oregon State University, School of EECS

M.S. Student in Computer Science (AI Group) **GPA: 4.0/4.0** *Sep. 2015 – current*

Full Scholarship with Teaching Assistantship

City University of New York, Non-Degree Student in Computer Science, GPA: 4.0 *July 2015*

University of Southern California M.S., Molecular Microbiology & Immunology *May 2012*

Qingdao University, Medical College B.S., Clinical Medicine *July 2010*

SKILLS

- *Languages:* Python, Java, C/C++, JavaScript, HTML/CSS, SQL, Haskell, Prolog, LaTeX
- *Toolkits:* Node.js, Express, AJAX, scikit-learn, PyTorch, Keras, Hadoop, MySQL, MongoDB, OpenGL, Django, NLTK
- *Other*: Linux/Unix/OS X (Shell script), Git, Visual Studio, Eclipse, Android Studio, Bootstrap, iPython Notebook, Amazon Web Services (AWS)

PROJECTS

Full-Stack Web Development: Website for E.Cafe at Oregon State University *Jan. 2017–present*
(HTML/CSS/JavaScript/JQuery/Node.js/Express.js/MongoDB/AJAX/AWS/MVC)

- Developing a commercial-use dynamic website supporting user log in, food ordering and payment
- Working with Amazon Web Services EC2, installing and administering Linux distributions such as Ubuntu and CentOS
- Creation, updating, and maintenance of MongoDB database

Machine Learning: Kaggle competition "What's cooking?" *Fall 2015*
(classification accuracy: 79.0%; top 15% in competition)

- Multiclass classification (`scikit-learn`) enhanced by word embeddings (`word2vec`);
- Hierarchical clustering of cuisines with Ward linkage
- Dimensionality reduction using PCA: project all cuisines onto two dimensions

Deep Learning for Natural Language Processing: Neural Translation *Winter 2016*

- Used pytorch-based seq2seq encoder-decoder (OpenNMT-py) for machine translation
- Used byte pair encoding (BPE) to reduce vocabulary size
- Trained on 100k Chinese-English sentence pairs, and got 29.0 BLEU score on NIST 02.

Database Management Systems: housing price prediction *Winter 2017*
(Score for Neural Network Regression Model: 73.3%)

- Collected data by crawling `craigslist.org` for Corvallis area using `Scrapy`
- Stored and queried the data using `MySQL`
- Trained two regression models (linear and neural) to predict price (`scikit-learn`)

Computer Graphics: animated 3D scene of the solar system using OpenGL. *Fall 2016*

- used geometric modeling, texture mapping, animation, lighting, transparency, Bézier curves

TEACHING EXPERIENCE

CS 344, **Operating Systems I**: (160 students) (Spring 16, Fall 16, Winter 17);
CS 325, **Algorithms** (180) (Winter/Summer 16, Spring 17); CS 261, **Data Structures** (Fall 15).

SELECTED COURSES

Machine Learning	Deep Learning	Reinforcement Learning
Web Development	Mobile & Cloud Development	Advanced OOP in C++
Database Management Systems	Intro. to Computer Graphics	Computer Architecture
Algorithms and Data Structures	Theory of Computation	Programming Languages