

U Chun (Jeff) Lao
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Education

University of Southern California Los Angeles, CA

Master of Science in *Computer Science* with concentration in *Intelligent Robotics*

August 2013 - May 2015

Revalent courses:

- Machine Learning
- Database Systems
- Coordinated Mobile Robotics
- Natural Language Processing

Cornell University Ithaca, NY

Master of Engineering in *Electrical and Computing Engineering*

August 2011 - May 2012

Revalent courses:

- Computer Vision
- Feedback Control

University of California, Berkeley Berkeley, CA

Bachelor of Science with double major in

Electrical Engineering and Computer Science, Engineering Physics

May 2009 - August 2011

Selected Projects

Listsum, the movie and TV series recommender

July 2015 - now

Full stack engineer in the startup project on web-based movie and TV series recommender.

This project uses AngularJS, and neo4j, where the recommender is written in C++. It is currently under alpha testing.

Significant contribution includes reducing server response time from seconds to milliseconds.

Directed Research on Coordinated Mobile Robotics

fall 2014 - spring 2015

Directed research at USC under Prof Nora Ayanian on multi-robot path planning, studies the optimal and computationally feasible planning for a group of robots that move along their own fixed paths towards their goals. Code written in Pythron and MATLAB.

Directed Research on Natural Language Processing

summer 2014

Directed research at USC under Prof Kenji Sagae on parsing morphologically rich languages (SPMRL Shared Task 2014) with publication.

Responsible for exploring the best segmentation in Hebrew and Arabic (dividing raw sentences without white spaces into sequence of meaningful words.) The result segmentation with potentially correct segmentation has a F-score 0.91, compare to the 0.62 for the disambiguated set provided. Code written in Python.

Bunshu RSS Reader

2013 - now

Web-based RSS reader client. Project mostly written with Python, JavaScript, HTML and CSS. Product is currently running on bunshu.net

Skills

Proficiency in: C, C++, Python

Experience with: JAVA, MATLAB, SQL, C#, Pascal, HTML, CSS, Javascript, L^AT_EX

Knowledge in: Go, PDDL

Publication

A. Köhn, U C. Lao, A. Zadeh and K. Sagae, **Parsing Morphologically Rich Languages with (Mostly) Off-The-Shelf Software and Word Vectors**. In Proceedings of the 2014 Shared Task of the COLING Workshop on Statistical Parsing of Morphologically Rich Languages. 2014.

Language

Proficient in Chinese and English