

# YUNZHONG HE

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## EDUCATION

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### University of California, Los Angeles

September 2015 - December 2016

M.S. in Computer Science, focus on Artificial Intelligence and Computer Vision

Worked under Center for Vision, Cognition, Learning and Autonomy advised Prof. Song-Chun Zhu

### University of California, Los Angeles

September 2011 - April 2015

B.S. in Computer Science with a focus on Mathematics

Graduated with Cum Laude, Member of Upsilon Pi Epsilon (Computer Science Honor Society)

## WORK EXPERIENCE

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### Facebook

March 2017 - today

*Software Engineer - Machine Learning and Ranking*

*Seattle, WA*

- Work on search ranking and retrieval using machine learning and natural language processing techniques
- Build deep learning models for search personalizations

### Electronic Arts

June 2016 - September 2016

*Data Engineer Intern at EA Digital Platform - Data Team*

*Redwood City, CA*

- Developed algorithms for aspect-based opinion mining of EA's game data. Designed models based on dependency grammar, conditional random field and deep learning
- Integrated the algorithms into Hadoop/Spark and created visualization tools for the mining results

### Amazon Web Services

May 2015 - September 2015

*Software Development Engineer Intern at AWS CloudDrive - Content Processing Team*

*Seattle, WA*

- Designed and implemented the location tagging feature of Amazon Prime Photos. This includes building services on AWS for data extraction, data normalization and indexing
- Analyzed statistics and performed optimizations to scale the services to production

### Qualcomm

June 2014 - September 2014

*Software Engineer Intern at APT Linux Team*

*San Diego, CA*

- Worked on various features of a test execution engine and a test report management system for Snapdragon processors. Built a testing script monitor using Spring MVC and Hibernate

### Silvus Technologies

June 2013 - December 2013

*Embedded Software Engineer Intern*

*Los Angeles, CA*

- Worked on Linux customization and networking softwares of MIMO radios. Developed a user authentication and data encryption module using C and shell scripts

## RESEARCH AND TEACHING

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### Communicative Learning that Joins Vision and Language

My research aims to enable AI systems to learn knowledge at all levels through interacting with humans. This includes learning from demonstrations and dialogues

### Teaching Assistant at UCLA

Formal Languages and Automata Theory (Fall 2015, Spring 2016, Fall 2016)

Mathematical Modeling (Winter 2016)

**PUBLICATIONS**

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**Jointly Learning Grounded Task Structures from Language Instruction and Visual Demonstration**

Proceedings of the 2016 Conference on Empirical Methods in Natural Language Processing (EMNLP 2016)

**Learning Human Utility from Video Demonstrations for Deductive Planning in Robotics**

Proceedings of Machine Learning Research (CoRL 2017)

**TECHNICAL SKILLS**

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<b>Machine Learning</b>	Solid understanding of theories and tools in machine learning and statistical modeling
<b>Big Data Technologies</b>	Familiar with technologies in big data ecosystems like AWS, Hadoop and Spark
<b>Web Development</b>	Java Spring, CodeIgniter, CakePHP, EmberJS, SQL/NoSQL Databases, etc.
<b>Agile Development</b>	Familiar with agile development process and unit testing tools (JUnit, Mockito, etc.)