

JIAQI WU

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Natural Language and Dialogue Systems Lab
University of California Santa Cruz

EDUCATION

University of California, Santa Cruz

Ph.D.

Department of Computer Science

Fall 2014 - Present

Overall GPA: 3.91/4

Hong Kong University of Science and Technology

Master of Science

Information Technology

Fall 2010 - Fall 2011

Overall GPA: 3.88/4

Sun Yat-sen University

Bachelor of Engineering

Software Engineering

Fall 2004 - Fall 2008

Overall GPA: 3.3/4

EXPERIENCE

University of California Santa Cruz

Teaching Assistant

2015 - 2019

CS Outstanding TA 2016 - 2017

- TA for CMPS 140 Artificial Intelligence in 2019 Winter.
- TA for CMPS 5J Introduction to Programming in Java in 2016 Fall.
- TA for CMPS 143 Introduction To Natural Language Processing for 2015 and 2016 Spring.

Amazon Alexa Prize Contest 2018

Software Engineer

February 2017 - September 2018

- Our Slugbot team is one of the eight teams selected by Amazon over the world to tackle the AI challenge of creating a socialbot that could converse engagingly and coherently with humans for 20 minutes on open domain topics.

Amazon Alexa Prize Contest 2017

Software Engineer

September 2016 - September 2017

- Developed the open-domain social dialogue system Slugbot for a more engaging user experience.

Wumii.com, China

Software Engineer

November 2011- November 2012

- Developed the website of Wumii.com for reading recommendation and social network service.

Visionsky Information Science & Technology Ltd, China

Software Engineer

July 2008 - April 2010

- Developed the application for online Banking System for Bank of China.

TECHNICAL STRENGTHS

Computer Languages

Java, SQL, Python, JavaScript, Haskell, C++ etc.

Software & Tools

Amazon Alexa Skill & AWS, PostgreSQL, Oracle DB, etc.

Natural Language Processing

Dialogue System & Sentiment Analysis

Machine Learning

Reinforcement Learning

PUBLICATIONS

Jiaqi Wu, Ryan Compton, Geetanjali Rakshit, Marilyn Walker, Pranav Anand, and Steve Whittaker. CruzAffect: a feature-rich approach to characterize happiness. To appear in the *Workshop on Affective Content Analysis (AffCon) 2019, Association for the Advancement of Artificial Intelligence (AAAI) 2019*, Hawaii, US, January 2019.

Jiaqi Wu, Marilyn Walker, Pranav Anand and Steve Whittaker. Linguistic Reflexes of Well-Being and Happiness in Echo. To appear in the *8th Workshop on Computational Approaches to Subjectivity, Sentiment and Social Media Analysis (WASSA) 2017, Conference on Empirical Methods in Natural Language Processing (EMNLP) 2017*, Copenhagen, Denmark, September 2017.

Kevin Bowden, **Jiaqi Wu**, Shereen Oraby, Amita Misra, and Marilyn Walker. SlugNERDS: A Named Entity Recognition Tool for Open Domain dialogue Systems. In submission to the *11th edition of the Language Resources and Evaluation Conference (LREC) 2018*, Miyazaki, Japan, May 2018.

Elahe Rahimtoroghi, **Jiaqi Wu**, Ruimin Wang, Pranav Anand and Marilyn Walker. Modelling Protagonist Goals and Desires in First-Person Narrative. Best Paper Award Nominees. To appear in *SIGdial Meeting on Discourse and Dialogue (SIGDIAL) 2017*, Saarbrücken, Germany, August 2017.

Lena Reed, **Jiaqi Wu**, Shereen Oraby, Pranav Anand and Marilyn Walker. Learning Lexico-Functional Patterns for First-Person Affect. To appear in *Association for Computational Linguistics (ACL 2017)*, Vancouver, Canada, August 2017.

Kevin Bowden, Shereen Oraby, **Jiaqi Wu**, Amita Misra and Marilyn Walker. Combining Search with Structured Data to Create a More Delightful User Experience in Open Domain Dialogue. To appear in *Search-Oriented Conversational AI (SCAI) 2017*, Amsterdam, Netherlands, October 2017.

SELECTED PROJECTS

Human Robot Gesture Matching with Dialogue System Winter 2018

Supervisor: Professor Marilyn Walker and Professor Leila Takayama

- This is a collaboration project with Hitachi and UCSC Human-Robot Interaction lab.

Why Worries Become Joys: Causality Analysis Between Event Pairs Fall 2015

Supervisor: Professor Lise Getoor

- In this work, we compare four off-the-shelf linguistic measures for causality: Pointwise Mutual Information (PMI), Causal Potential (CP), Effect-Control-Dependency (ECD) and Causal Effect Association (CEA). We suggest a new model that is unbiased to frequent/rare event, and is able to analysis causality between classes by considering the independence of causality and classes. We show that our causality model improve the accuracy of the traditional classifier, and might be used for feature selection.

Reading Recommendation System for Social Network November 2011 - November 2012

- I designed and implemented the reading recommendation system, including the article collection function, email contacts importer, Weibo synchronizer, pagination detector, user timeline, private message, notification, and recommendation improvement, etc.

Predicted User Preference by PLSA and GPLSA August 2011

Supervisor: Professor Qiang Yang

- We have a comprehensive study of two recommender systems, Probabilistic Latent Semantic Analysis (PLSA) and Gaussian PLSA (GPLSA), by analyzing the rating data of KDD Cup 2011. The goal of PLSA and GPLSA were to provide statistical unsupervised learning of multi-mode co-occurrences between users and items. Therefore, we predicted the binary preference of users by PLSA and numerical rating by GPLSA. Our experiments aimed to find the soundest model of these two approaches for the large sparse data respectively.

CERTIFICATION/REWARD

Certification of Completion of the Graduate Leadership Program. Winter 2018

CS outstanding TA 2016-17

Udacity: the Advanced Track of Introduction to Artificial Intelligence. 2012

Sun Certified Java Programmer (SCJP) 2008

LANGUAGE

English, Mandarin, Cantonese