

# Su WANG

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<b>EDUCATION</b>	<i>Ph.D. in Computational Linguistics (GPA 4.0)</i>	2015 - Present
	Advisors: Katrin Erk (Linguistics); Greg Durrett (CS)	
	<i>M.S. in Statistics (GPA 4.0)</i>	2016 - Present
	University of Texas at Austin, Austin, TX	
	<i>M.A. in General Linguistics</i>	2012 - 2015
	<i>Computer Science Minor (GPA 4.0)</i>	
	University at Buffalo, Buffalo, NY	
	<i>M.A. in Applied Linguistics</i>	2009 - 2012
	Yunnan University, China	

## **PUBLICATIONS** PEER-REVIEWED

- [1] **Su Wang**, Rahul Gupta, Nancy Chang, Jason Baldridge. *A Task in a Suit and a Tie: Paraphrase Generation with Semantic Augmentation*. AAAI 2019 (ORAL/POSTER: TBD).
- [2] **Su Wang**, Eric Holgate, Greg Durrett and Katrin Erk. *Picking Apart Story Salads*. EMNLP 2018 (POSTER).
- [3] **Su Wang**, Greg Durrett and Katrin Erk. *Modeling Semantic Plausibility by Injecting World Knowledge*. NAACL 2018 (ORAL).
- [4] **Su Wang**, Stephen Roller and Katrin Erk. *Distributional model on a diet: One-shot word learning from text only*. IJCNLP 2017 (ORAL).
- [5] **Su Wang**, Elisa Ferracane and Raymond Mooney. *Leveraging discourse information efficiently for authorship attribution*. IJCNLP 2017 (ORAL).

## OTHER WORK

- [1] **Su Wang** and Joshua Levy. (2017). *Named Entity Recognition in Practice*. Journal of KUST. Vol2.
- [2] **Su Wang**. (2017). *Non-Cooperative Behavior in Conversational Interaction*. Journal of KUST. Vol1.
- [3] **Su Wang**. (2013). *The Representation of Topological Relations in Naxi Language – A Statistical Approach*. in Cha-Ma Ancient Trail Research Anthology, (Shiyuan Wang eds.). Vol3. Yunnan University Press: Kunming.
- [4] **Su Wang**. (2013). *On a Descriptive Word Classification of “Proto-Unergative-Proto-Unaccusative” Verbs*. Journal of Yunnan Normal University. Vol3.

## TALKS

- [1] *An Introduction to Topic Modeling*. NLP Day 2017, Austin TX.  
(Link: <http://globaldatageeks.org/nlpdaytx17/sessions#wang>)
- [2] *Exploring Question-Answering System: Named Entity Recognition & Sentence Similarity Measure in Practice*. DataDay Texas 2017, Austin, TX.

(Link: <http://datadaytexas.com/sessions#wang>).

## ACADEMIC EXPERIENCE

*Research Assistant* 2017 - Present

EMPLOYER: Katrin Erk, PhD.,  
Department of Linguistics, University of Texas at Austin.  
PROJECT: Deep Natural Language Understanding  
with Probabilistic Logic and Distributional Similarity (DEEPsem)  
(NSF Grant No. 1523637)  
RESEARCH FOCUS:

- Semantic space and representation.
- Inference from embeddings.
- Neural networks.

*Research Assistant* 2016 - 2017

EMPLOYER: Katrin Erk, PhD.,  
Department of Linguistics, University of Texas at Austin.  
PROJECT: Deep Exploration and Filtering of Text (DEFT)  
RESEARCH FOCUS:

- Word Property Learning with Bayesian Hierarchical Models.
- Representation of Abstract Knowledge.

*Teaching Assistant* 2015 - 2016

EMPLOYER: Katrin Erk, PhD.,  
Department of Linguistics, University of Texas at Austin.  
COURSES:

- LIN353C Introduction to Computational Linguistics (Spring 2016)
- LIN350 Analyzing Linguistics Texts (Fall 2015)

RESPONSIBILITIES: Grading and answering programming questions;  
occasional lectures.

*Lab Researcher* 2012 - 2014

LAB NAME: Semantic Typology Lab, University at Buffalo.  
RESEARCH FOCUS:

- Quantitative methods in crosslinguistic study of semantic typology.
- Sino-Tibetan languages (Yi, Bai and Naxi).

*Research Assistant* 2009 - 2012

EMPLOYER: Liquan Yang, PhD. (Peking University),  
Department of Linguistics, Yunnan University.  
RESEARCH FOCUS:

- Statistical modeling in semantics (indigenous languages of Yunnan).
- Language Documentation (Yi, Bai and Naxi).

## ACADEMIC AWARDS

*Research Excellence Award in Natural Language Processing (NNSFC)* 2018 - 2020

*Professional Development Award* 2017 - 2019  
SPONSOR INSTITUTION: Department of Linguistics, UT Austin

*Professional Development Scholarship* 2012 - 2015  
SPONSOR INSTITUTION: Hua Ruan Software  
PROGRAM: Master in General Linguistics (CS Minor), University at Buffalo

*Graduate Scholarship* 2009 - 2012  
SPONSOR INSTITUTION: Yunnan University  
PROGRAM: Master in Applied Linguistics, Yunnan University

**PROFESSIONAL EXPERIENCE** *Software Engineer PhD Intern* Summer 2019  
EMPLOYER: Google Inc., Mountain View, CA  
SUPERVISOR: Jason Baldrige  
CO-SUPERVISORS: Rahul Gupta  
PROJECTS: Grounded semantics (TBD).

*Software Engineer PhD Intern* Summer 2018  
EMPLOYER: Google Inc., Mountain View, CA  
SUPERVISOR: Nancy Chang  
CO-SUPERVISORS: Rahul Gupta, Jason Baldrige  
PROJECTS: Efficient Paraphrase Generation with Structured Semantic Knowledge.

*NLP Data Scientist Intern, Technical Consultant* 2016 - Present  
EMPLOYER: OJO Labs Inc., Austin, TX  
SUPERVISOR: Joshua Levy, Chief Scientist.  
(PhD. in Computer Science, University of North Carolina at Chapel Hill)  
RESPONSIBILITIES: Consultation for linguistics-related NLP problems;  
Software engineer; Development of Question-Answering system.  
PROJECTS:

- Named Entity Recognition System for OJO Chatbot.
- Information Retrieval system for real estate search.

*Technical Consultant* 2012 - Present  
*Software Engineer* 2009 - 2012  
EMPLOYER: Hua Ruan Software, Yunnan, China  
RESPONSIBILITIES: Software engineer; NLP solutions; Statistics consultation.  
PROJECT: Identity Verification System.

*Test Analyst, Instructor* 2009 - 2011  
EMPLOYER: Century Youth Education, Yunnan, China  
RESPONSIBILITIES: Teaching test-taking skills IELTS and TOEFL.  
AWARDS: Best Instructor (2010,2011); Best Average Scoring (2011).

**TECHNICAL SKILLS** PROGRAMMING: Python, Java, C/C++, Prolog, R (Most Proficient in Python), working knowledge of HTML, CSS, JavaScript.  
STATISTICS: Neural Network Architectures, Bayesian Inference; Hierarchical Models; Mathematical Statistics.

**LANGUAGE SKILLS** MANDARIN CHINESE: Native.  
ENGLISH: Fluent.  
JAPANESE: Beginner.

**TECHNICAL TUTORIALS** [1] *A Brief Tutorial on Machine Learning.*

- [2] *Notes on Statistical Learning.*
- [3] *Generative Adversarial Networks (GAN): A Gentle Introduction.*
- [4] *Bayesian Statistical Methods: A Primer.*
- [5] *EM-algorithm and Clustering: a Tutorial.*
- [6] *Topic Modeling: A Complete Introductory Guide.*