Su WANG

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EDUCATION

Ph.D. in Computational Linguistics (GPA 4.0)　　　　　　　　2015 - Present
Advisors: Katrin Erk (Linguistics); Greg Durrett (CS)
M.S. in Statistics (GPA 4.0)　　　　　　　　　　　　　　　　2016 - Present
University of Texas at Austin, Austin, TX

M.A. in General Linguistics　　　　　　　　　　　　　　　　2012 - 2015
Computer Science Minor (GPA 4.0)
University at Buffalo, Buffalo, NY

M.A. in Applied Linguistics　　　　　　　　　　　　　　　　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 (POSTER).

[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   2018 - Present
EMPLOYER: Katrin Erk, PhD.,
    Department of Linguistics, University of Texas at Austin.
PROJECT: DARPA-AIDA
    Narrative based hypothesis generation using
    event coherence and probabilistic inference.
RESEARCH FOCUS:
- Semantic coherence.
- Pre-/post-conditions.
- Neural networks and Probabilistic Programming.

Research Assistant   2017 - 2018
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 Baldridge
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 Baldridge
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.*