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Alice Lai

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Education

Ph.D. Computer Science, University of Illinois at Urbana-Champaign

Aug 2012 – Aug 2018 (Expected)

Natural Language Processing and Machine Learning

Thesis: Textual Entailment from Image Caption Denotations

Advisor: Julia Hockenmaier

Committee: Katrin Erk, Dan Roth, ChengXiang Zhai

B.S. Computer Science, B.A. Japanese, University of Pittsburgh

2008 - 2012

Work Experience

Research Assistant, University of Illinois

2012 - Present

- Developed models to explore the effectiveness of different semantic representations, achieving competitive performance on downstream tasks like textual entailment and sentence similarity
- Implemented and maintained a relational database to store a structured graph of image caption information

Research Intern, Grammarly

Sept 2017 - Dec 2017

- Collected the first dataset for real-world text coherence across multiple genres
- Designed and tested annotation guidelines, and managed annotators throughout the data collection process
- Reimplemented previous coherence models and analyzed their performance on new real-world coherence task
- Developed new paragraph-aware neural network model of text coherence

Teaching Assistant, Machine Learning, University of Illinois

Aug 2016 – Dec 2016

- Assisted individual students in understanding the course material in weekly office hours
- Helped develop content for weekly discussion sections of 10-20 students
- Wrote homework assignments, weekly quizzes, exam questions, and grading rubrics

Product Search Software Development Intern, A9

May 2016 – Aug 2016

- Developed annotation guidelines and labeled data to map queries to a knowledge base
- Developed text features and wrote production code to extract these features from queries
- Analyzed accuracy and efficiency of features and implemented pruning strategies to improve performance

Publications

Alice Lai and Joel Tetreault. Discourse Coherence in the Wild: A Dataset, Evaluation, and Methods. Special Interest Group on Discourse and Dialogue (SIGDIAL), 2018.

Alice Lai, Yonatan Bisk, and Julia Hockenmaier. Natural Language Inference from Multiple Premises.

International Joint Conference on Natural Language Processing, 2017.

Alice Lai and Julia Hockenmaier. Learning to Predict Denotational Probabilities For Modeling Entailment. European Chapter of the Association for Computational Linguistics, 2017.

Alice Lai and Julia Hockenmaier. Illinois-LH: A Denotational and Distributional Approach to Semantics.

International Workshop on Semantic Evaluation (SemEval), 2014.

Peter Young, Alice Lai, Micah Hodosh, and Julia Hockenmaier. From image description to visual denotations: New similarity metrics for semantic inference over event descriptions. Transactions of the Association for Computational Linguistics Vol. 2, 2014.

Awards

Skills

Primary programming languages: Python, Java

Implemented models using deep learning libraries: PyTorch, Tensorflow

Familiar with NLP toolkits, including Stanford CoreNLP, OpenNLP, NLTK

Service/Organizations

Artificial Intelligence Seminar Organizer, University of Illinois

2015 - Present

• Coordinated with professors and students to schedule visiting speakers to the department

Secretary & Website Manager, UIUC Graduate Society of Women Engineers

2015 - 2017

• Coordinated with committee members to send weekly newsletter, maintained website of upcoming events