

Xiaoman Pan

Contact

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Research Interests

My research interests lie in Natural Language Processing, especially Information Extraction, Entity Linking, Entity Typing and Knowledge Base Population.

Education

Rensselaer Polytechnic Institute (RPI)

Troy, NY

Ph.D., Computer Science

Aug. 2015 - Present

Advisor: Prof. Heng Ji

Rensselaer Polytechnic Institute (RPI)

Troy, NY

B.S., Computer Science

Dec. 2014

Minor in Psychology

GPA 3.93/4.0

Publications

2018

- [14] Boliang Zhang, Ying Lin, **Xiaoman Pan**, Di Lu, Jonathan May, Kevin Knight and Heng Ji. ELISA-EDL: A Cross-lingual Entity Extraction, Linking and Localization System. Proc. the 16th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT2018) Demo Track.

2017

- [13] **Xiaoman Pan**, Boliang Zhang, Jonathan May, Joel Nothman, Kevin Knight and Heng Ji. Cross-lingual Name Tagging and Linking for 282 Languages. Proc. the 55th Annual Meeting of the Association for Computational Linguistics (ACL2017).
- [12] Lifu Huang, Jonathan May, **Xiaoman Pan**, Heng Ji, Xiang Ren, Jiawei Han, Lin Zhao and James Hendler. Liberal Entity Extraction: Rapid Construction of Fine-Grained Entity Typing Systems. Big Data, Mar 2017, 5(1): 19-31.

2016

- [11] Dongxu Zhang, Boliang Zhang, **Xiaoman Pan**, Xiaocheng Feng, Heng Ji, Weiran Xu. 2016. Bitext Name Tagging for Cross-lingual Entity Annotation Projection. Proc. the 26th International Conference on Computational Linguistics (COLING 2016).
- [10] Tao Ge, Qing Dou, **Xiaoman Pan**, Heng Ji, Lei Cui, Baobao Chang, Zhifang Sui, Ming Zhou. 2016. Aligning Coordinated Text Streams through Burst Information Network Construction and Decipherment. arXiv preprint arXiv:1609.08237.
- [9] Ellie Pavlick, Heng Ji, **Xiaoman Pan**, Chris Callison-Burch. 2016. The Gun Violence Database: A new task and data set for NLP. Proc. Conference on Empirical Methods in Natural Language Processing (EMNLP 2016).
- [8] Ying Lin, **Xiaoman Pan**, Aliya Deri, Heng Ji, Kevin Knight. 2016. Leveraging Entity Linking and Related Language Projection to Improve Name Transliteration. Proc. ACL2016 Workshop on Named Entities.

- [7] Di Lu, **Xiaoman Pan**, Nima Pourdamghani, Shih-Fu Chang, Heng Ji, Kevin Knight. 2016. A Multi-media Approach to Cross-lingual Entity Knowledge Transfer. Proc. the 54th Annual Meeting of the Association for Computational Linguistics (ACL 2016).
- [6] Lifu Huang, Jonathan May, **Xiaoman Pan**, Heng Ji. 2016. Building a Fine-Grained Entity Typing System Overnight for a New X (X= Language, Domain, Genre). arXiv preprint arXiv:1603.03112.
- [5] Chuan Wang, Sameer S Pradhan, **Xiaoman Pan**, Heng Ji, Nianwen Xue. 2016. CAMR at SemEval-2016 Task 8: An Extended Transition-based AMR Parser. Proc. NAACL-HLT 2016 Workshop on Semantic Evaluation (SemEval-2016).
- [4] Boliang Zhang, **Xiaoman Pan**, Tianlu Wang, Ashish Vaswani, Heng Ji, Kevin Knight, Daniel Marcu. 2016. Name Tagging for Low-resource Incident Languages based on Expectation-driven Learning. Proc. the 2016 Conference of the North American Chapter of the Association for Computational Linguistics Human Language Technologies (NAACL-HLT 2016).

2015

- [3] Boliang Zhang, Hongzhao Huang, **Xiaoman Pan**, Sujian Li, Chin-Yew Lin, Heng Ji, Kevin Knight, Zhen Wen, Yizhou Sun, Jiawei Han, Bulent Yener. 2015. Context-aware Entity Morph Decoding. Proc. the 53rd Annual Meeting of the Association for Computational Linguistics (ACL 2015).
- [2] **Xiaoman Pan**, Taylor Cassidy, Ulf Hermjakob, Heng Ji, Kevin Knight. 2015. Entity Linking with Abstract Meaning Representation. Proc. the 2015 Conference of the North American Chapter of the Association for Computational Linguistics Human Language Technologies (NAACL HLT 2015).

2014

- [1] Boliang Zhang, Hongzhao Huang, **Xiaoman Pan**, Heng Ji, Kevin Knight, Zhen Wen, Yizhou Sun, Jiawei Han, Bulent Yener. 2014. Be Appropriate and Funny: Automatic Entity Morph Encoding. Proc. the 52nd Annual Meeting of the Association for Computational Linguistics (ACL 2014).

System Descriptions

Heng Ji, Xiaoman Pan, Boliang Zhang, Joel Nothman, James Mayfield, Paul McNamee and Cash Costello. 2017. Overview of TAC-KBP2017 13 Languages Entity Discovery and Linking. Proc. Text Analysis Conference (TAC2017).

Mohamed Al-Badrashiny, Jason Bolton, Arun Tejavsi Chaganty, Kevin Clark, Craig Harman, Lifu Huang, Matthew Lamm, Jinhao Lei, Di Lu, Xiaoman Pan, Ashwin Paranjape, Ellie Pavlick, Haoruo Peng, Peng Qi, Pushpendre Rastogi, Abigail See, Kai Sun, Max Thomas, Chen-Tse Tsai, Hao Wu, Boliang Zhang, Chris Callison-Burch, Claire Cardie, Heng Ji, Christopher Manning, Smaranda Muresan, Owen C. Rambow, Dan Roth, Mark Sammons, Benjamin Van Durme. 2017. TinkerBell: Cross-lingual Cold-Start Knowledge Base Construction. Proc. Text Analysis Conference (TAC2017).

Boliang Zhang, Xiaoman Pan, Ying Lin, Tongtao Zhang, Kevin Blissett, Samia Kazemi, Spencer Whitehead, Lifu Huang and Heng Ji. 2017. RPI BLENDER TAC-KBP2017 13 Languages EDL System. Proc. Text Analysis Conference (TAC2017).

Leon Cheung, Thamme Gowda, Ulf Hermjakob, Nelson Liu, Jonathan May, Alexandra Mayn, Nima Pourdamghani, Michael Pust, Kevin Knight, Nikolaos Malandrakis, Pavlos Papadopoulos, Anil Ramakrishna, Karan Singla, Victor Martinez, Colin Vaz, Dogan Can, Shrikanth Narayanan, Kenton Murray, Toan Nguyen, David Chiang, Xiaoman Pan, Boliang Zhang, Ying Lin, Di Lu, Lifu Huang, Kevin Blissett, Tongtao Zhang, Heng Ji, Ondrej Glembek, Murali Karthick Baskar, Santosh Kesiraju, Lukas Burget, Karel Benes, Igor Szoke, Karel Vesely, Jan Honza Cernocky, Camille Goudeseune, Mark Hasegawa

Johnson, Leda Sari, Wenda Chen and Angli Liu. 2017. ELISA System Description for LoReHLT 2017. Proc. LoReHLT2017.

Pavlos Papadopoulos, Ruchir Travadi, Colin Vaz, Nikolaos Malandrakis, Ulf Hermjakob, Nima Pourdamghani, Michael Pust, Boliang Zhang, Xiaoman Pan, Di Lu, Ying Lin, Ondrej Glembek, Murali Karthick B, Martin Karafiat, Lukas Burget, Mark Hasegawa-Johnson, Heng Ji, Jonathan May, Kevin Knight and Shrikanth Narayanan. 2017. Team ELISA System for DARPA LORELEI Speech Evaluation 2016. Proc. Interspeech2017.

Ulf Hermjakob, Qiang Li, Jonathan May, Sebastian Mielke, Nima Pourdamghani, Michael Pust, Xing Shi, Kevin Knight, Daniel Marcu, Nikolaos Malandrakis, Anil Ramakrishna, Victor Martinez, Elisabeth Staruk, Tanner Sorensen, Dogan Can, Shrikanth Narayanan, Tomer Levinboim, Kenton Murray, David Chiang, Boliang Zhang, Xiaoman Pan, Di Lu, Lifu Huang, Xiaocheng Feng, Heng Ji. 2016. ELISA System Description for LoReHLT 2016. Proc. NIST LoReHLT 2016 Workshop.

Dian Yu, Xiaoman Pan, Boliang Zhang, Lifu Huang, Di Lu, Spencer Whitehead, Heng Ji. 2016. RPI BLENDER TAC-KBP2016 System Description. Proc. Text Analysis Conference (TAC 2016).

Yu Hong, Di Lu, Dian Yu, Xiaoman Pan, Xiaobin Wang, Yadong Chen, Heng Ji. 2015. RPI BLENDER TAC-KBP2015 System Description. Proc. Text Analysis Conference (TAC 2015).

Yu Hong, Xiaobin Wang, Yadong Chen, Jian Wang, Tongtao Zhang, Jin Zheng, Dian Yu, Qi Li, Han Wang, Xiaoman Pan, Heng Ji. 2014. RPI-Soochow KBP2014 System Description. Proc. Text Analysis Conference (TAC 2014).

Services

Conference Reviewer: ACL2017, ACL2018, CONLING2018

Research Experience

Blender Lab RPI
Research Assistant *Aug. 2013 - Present*
Advisor: Professor Heng Ji

Work Experience

Facebook Research - Applied Machine Learning 1 Hacker Way, Menlo Park, CA
Research Internship *Feb. 2017 - May 2017*
Mentor: Dr. Yang Liu
Entity Linking on social media.

Bosch Research and Technology Center 4005 Miranda Ave #200, Palo Alto, CA
Research Internship *May 2015 - Jul. 2015*
Mentor: Dr. Lin Zhao
Unsupervised concept typing on specific domain.

Professional Skills

Programming Languages: Python

Operating Systems: OS X, Linux

Awards & Honors

Marsh, Prince and Wait Research Fellowship 2014
Dean's List RPI