

# Woojeong Jin

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## RESEARCH INTERESTS

Multimodal Learning, Natural Language Processing

## EDUCATION

**University of Southern California**, Los Angeles, California

- Ph.D. in Computer Science Aug. 2018 – Present
  - Advisor: Prof. Xiang Ren

**Seoul National University**, Seoul, Korea

- B.S. in Electrical and Computer Engineering Feb. 2017

## RESEARCH & WORK EXPERIENCE

**Microsoft Research**, Redmond, Washington

- Research Intern Jan. 2022 – Apr. 2022
  - Mentors: Subho Mukherjee, Yu Cheng, Yelong Shen, and Ahmed H. Awadallah

**Microsoft Azure AI**, Redmond, Washington

- Research Intern June 2021 – Jan. 2022
  - Mentors: Yu Cheng, Yelong Shen, and Weizhu Chen

**AI Integrity, Facebook AI**, Menlo Park, California

- Research Intern May. 2020 – Aug. 2020
  - Mentors: Hamed Firooz and Maziar Sanjabi

**Seoul National University**, Seoul, Korea

- Research Assistant Jan. 2016 – Apr. 2018
  - Advisor: Prof. U Kang

**LG Electronics**, Seoul, Korea

- Research Intern June 2014 – Aug. 2014

## PUBLICATIONS

### REFEREED CONFERENCE PAPERS

- [C10] [Woojeong Jin](#), Yu Cheng, Yelong Shen, Weizhu Chen, and Xiang Ren. A Good Prompt Is Worth Millions of Parameters: Low-resource Prompt-based Learning for Vision-Language Models. *ACL 2022 (long)*.
- [C9] [Woojeong Jin\\*](#), Dong-Ho Lee\*, Chenguang Zhu, Jay Pujara, and Xiang Ren. Leveraging Visual Knowledge in Language Tasks: An Empirical Study on Intermediate Pre-training for Cross-Modal Knowledge Transfer. *ACL 2022 (long)*.
- [C8] [Woojeong Jin](#), Maziar Sanjabi, Shaoliang Nie, Liang Tan, Xiang Ren, and Hamed Firooz. MSD: Saliency-aware Knowledge Distillation for Multimodal Understanding. *EMNLP 2021 Findings (long)*.
- [C7] [Woojeong Jin](#), Rahul Khanna, Suji Kim, Dong-Ho Lee, Fred Morstatter, Aram Galstyan, and Xiang Ren. ForecastQA: A Question Answering Challenge for Event Forecasting with Temporal Text Data. *ACL 2021 (long)*.
- [C6] [Woojeong Jin](#), Meng Qu, Xisen Jin, and Xiang Ren. Recurrent Event Network: Autoregressive Structure Inference over Temporal Knowledge Graphs. *EMNLP 2020 (long)*.
- [C5] Sankalp Garg\*, Navodita Sharma\*, [Woojeong Jin](#), and Xiang Ren. Temporal Attribute Prediction via Joint Modeling of Multi-Relational Structure Evolution. *IJCAI 2020*.
- [C4] Cong Fu, Tong Chen, Meng Qu, [Woojeong Jin](#), and Xiang Ren. Collaborative Policy Learning for Open Knowledge Graph Reasoning. *EMNLP 2019 (long)*.
- [C3] Weizhi Ma, Min Zhang, Yue Cao, [Woojeong Jin](#), Chenyang Wang, Yiqun Liu, Shaoping Ma, and Xiang Ren. Jointly Learning Explainable Rules for Recommendation with Knowledge Graph. *TheWebConf 2019*.

- [C2] Minji Yoon, Woojeong Jin, and U Kang. Fast and Accurate Random Walk with Restart on Dynamic Graphs with Guarantees. *TheWebConf 2018*.
- [C1] Jinhong Jung, Woojeong Jin, Lee Sael, and U Kang. Personalized Ranking in Signed Networks using Signed Random Walk with Restart. *ICDM 2016*.

#### REFEREED JOURNAL PAPERS

- [J4] Daniel M Benjamin, Fred Morstatter, Ali E Abbas, Andres Abeliuk, Pavel Atanasov, Stephen Bennett, Andreas Beger, Saurabh Birari, David V Budescu, Michele Catasta, Emilio Ferrara, Lucas Haravitch, Mark Himmelstein, KSM Tozammel Hossain, Yuzhong Huang, Woojeong Jin, Regina Joseph, Jure Leskovec, Akira Matsui, Mehrnoosh Mirtaheri, Xiang Ren, Gleb Satyukov, Rajiv Sethi, Amandeep Singh, Rok Susic, Mark Steyvers, Pedro A Szekely, Michael D Ward, Aram Galstyan. Hybrid forecasting of geopolitical events. *AI Magazine*, 2023.
- [J3] Jinhong Jung, Woojeong Jin, Ha-myung Park, and U Kang. Accurate Relational Reasoning in Edge-labeled Graphs by Multi-labeled Random Walk with Restart. *World Wide Web Journal*, 2020.
- [J2] Woojeong Jin, Jinhong Jung, and U Kang. Supervised and Extended Restart in Random Walks for Ranking and Link Prediction in Networks. *PLOS ONE*, 2019.
- [J1] Jinhong Jung, Woojeong Jin, and U Kang. Random Walk Based Ranking in Signed Social Networks: Model and Algorithms. *KAIS*, 2019.

#### WORKSHOPS

- [W3] Woojeong Jin, Yu Cheng, Yelong Shen, Weizhu Chen, and Xiang Ren. A Good Prompt Is Worth Millions of Parameters: Low-resource Prompt-based Learning for Vision-Language Models. *MML@ACL 2022*.
- [W2] Woojeong Jin, Maziar Sanjabi, Shaoliang Nie, Liang Tan, Xiang Ren, and Hamed Firooz. Modality-specific Distillation. *MAI@NAACL 2021*.
- [W1] Woojeong Jin, Changlin Zhang, and Xiang Ren. Recurrent Event Network for Reasoning over Temporal Knowledge Graphs. *ICLR-RLGM 2019*.

#### PATENTS

#### KOREA

- **Method and Apparatus for Providing Supervised and Extended Restart in Random Walks for Ranking and Link Prediction in Networks** with Jinhong Jung and U Kang. Application number: 10-2017-0131543 (filed on Nov. 10, 2017). Registration number: 10-2048442 (registered on Nov. 19, 2019).
- **Method for Personalized Ranking in Signed Networks, Recording Medium And Device for Performing the Method.** with Jinhong Jung and U Kang. Application number: 10-2017-0005485 (filed on Jan. 12, 2017). Registration number: 10-1866866 (registered on June 05, 2018).

#### AWARDS & HONORS

- Kwanjeong Educational Foundation Scholarship Aug. 2018 – Present
- USC Annenberg Graduate Fellowship Aug. 2018 – Present
- Merit-based Scholarship, SNU 2014, 2015, 2016
- National Scholarship for Science and Engineering, Korea Student Aid Foundation 2010

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