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 — Feb. 2022 – Present
  - Mentors: Subho Mukherjee, Yu Cheng, 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

PREPRINTS

[P1] 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. *arXiv preprint*.

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

[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

[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 Su- pervised 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

SERVICES

Program Committee Member (Reviewer):

- Conferences: KDD 2020, AKBC 2020, WSDM 2019, CONLL 2019, NeurIPS 2019
- Workshops: ICLR 2019 LLD, KDD 2019 MLG, NeurIPS 2019 GRL

[*CV compiled on 2022-02-24*]