Sangpil Youm

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Education

University of Florida, Gainesville, FL, USA May 2022 - Expected: August 2026
Ph D. in Computer Science *Advisor: Bonnie J. Dorr*

Indiana University, Bloomington, IN, USA May 2021
Master of Science in Data Science

SungKyunKwan University, Seoul, South Korea Feb 2019
Bachelor in Library and Information Science, Data Science

Publications

- **Youm, S.**, Chaeeun Han, Hojeong Yoo, Sou Hyun Jang, Bonnie Dorr. "I Still Need Your Help": Online Information Seeking Behavior Among International Students on Reddit, *Public Library of Science One (PLOS One)*, to appear, 2026.
- **Youm, S.**, Leah Jones, Bonnie Dorr. Revisiting Semantic Role Labeling: Modernizing for Structure, Speed, and Multilinguality, submitted to LREC
- Khan, Y., Xinlei Wu, **Sangpil Youm**, Justin Ho, Aryaan Mehboob Shaikh, Jairo Garciga, Rohan Sharma, Bonnie Dorr. DETQUS: Decomposition-Enhanced Transformers for QUery-focused Summarization, *Proceedings of the 2025 Annual Conference of The Nations of the Americas Chapter of the Association for Computational Linguistics (NAACL)*, New Mexico, pp. 2720–2731, 2025. *Paper Link*
- **Youm, S**., Brodie Mather, Chathuri Jayaweera, Juliana Prada, Bonnie Dorr. DAHRS: Divergence-Aware Hallucination-Remediated SRL Projection. *The 29th International Conference on Natural Language & Information Systems (NLDB)*, Turin, Italy, pp. 423–438, 2024. *Paper Link*
- Jayaweera, C., **Sangpil Youm**, Bonnie Dorr. AMREx: AMR for Explainable Fact Verification, *Proceedings of the Seventh Fact Extraction and VERification Workshop (FEVER), Conference on Empirical Methods in Natural Language Processing (EMNLP)*, Miami, pp. 234–244, 2024. *Paper Link*
- Zhang, D., Bushi Xiao, Chao Gao, **Sangpil Youm**, Bonnie Dorr. Modeling Bilingual Sentence Processing: Evaluating RNN and Transformer Architectures for Cross-Language Structural Priming, *Proceedings of the Fourth Workshop on Multilingual Representation Learning (MRL 2024), Conference on Empirical Methods in Natural Language Processing (EMNLP)*, Miami, pp. 127–136, 2024. *Paper Link*
- Martinez, M., Sonja Schmer-Galunder, Zoey Liu, **Sangpil Youm**, Chathuri Jayaweera, Bonnie Dorr. Balancing Transparency and Accuracy: A Comparative Analysis of Rule-Based and Deep Learning Models in Political Bias Classification, *Proceedings of the Second Workshop on Social Influence in Conversations (SICon 2024), Conference on Empirical Methods in Natural Language Processing (EMNLP)*, Miami, pp. 102–115, 2024. *Paper Link*

Work Experience

Instructor Spring 2024
Department of Computer and Information Science and Engineering at University of Florida
- Designed and taught Natural Language Processing (CAI 6307), covering syntax, semantics, and large language models (LLMs), with emphasis on real-world applications
- Led semester-long team-based projects, including: Tabular-based question answering models, Political bias classification systems, Bilingual sentence processing, with student work resulting in publications at NLP conferences

Graduate Teaching Assistant Jan 2023 – Present
Department of Computer and Information Science and Engineering at University of Florida
- Supported instruction for Natural Language Processing (CAP 4641), spanning classical NLP methods through modern LLMs
- Managed GPU-based developing environments using the University of Florida's high-performance computing infrastructure

Graduate Research Assistant Mar 2022 – Present
Department of Computer and Information Science and Engineering at University of Florida
- Developed a modernized Semantic Role Labeling (SRL) model improving efficiency and robustness
- Approximately $\approx X10$ speed up in modernized SRL model and 13% accuracy improvement in cross-lingual SRL compared to prior baselines

Graduate Researcher Oct 2020 – May 2021
Wissee
- Developed an LSTM-CRF model for Named Entity Recognition (NER) on real-world data
- Achieved 69.3% F1 score under noisy and domain-specific conditions