SANGPIL YOUM

812-830-2413 | youms@ufl.edu | https://github.com/philz0918

EDUCATION

University of Florida, Gainesville, FL, USA May 2022 - present
Ph D. in Computer Science GPA : 3.88/4.00 *Advisor: Bonnie J. Dorr*

Indiana University, Bloomington, IN, USA May 2021
Master of science in Data Science GPA : 3.88/4.00

SungKyunKwan University, Seoul, South Korea Feb 2019
Bachelor in Data Science, Library and Information Science GPA : 3.92/4.50 , 4.08/4.50

University at Buffalo, Buffalo, NY, USA Jan 2016 - May 2016
Exchange Student GPA : 3.93/4.00

WORK EXPERIENCE

Graduate Teaching Assistant Jan 2023 – Present
Department of Computer and Information Science and Engineering at University of Florida
- Natural Language Processing (CAP 4641/CIS6930)
- Developed and operated class projects

Graduate Research Assistant Mar 2022 – Present
Department of Computer and Information Science and Engineering at University of Florida
- Develop pragmatic markers (politeness, formality) detection model for communication effectiveness
- Developed generalizable algorithm for the Semantic Role Labeling (SRL) task in mid-resource languages
- Established *Natural Language Processing & Culture (NLP&C)* lab environment

Instructor Spring 2024
Department of Computer and Information Science and Engineering at University of Florida
- Natural Language Processing (CAI 6307)

Graduate Researcher Oct 2020 – May 2021
Wissee
- Built and compared the performance between Deep learning model (BERT, LSTM) and machine learning model (Hidden Markov Model) for Name Entity Recognition.
- Processed Twitter data by applying NLP techniques with Spacy and NLTK and compared the efficiency between them

PUBLICATIONS

Peer-Reviewed Articles
- Khan, Y., Wu, X., **Youm, S.**, Ho, J., Shaikh, A., Garciga, J., Sharma, R., Dorr, B. DETQUS: Decomposition-Enhanced Transformers for QUery-focused Summarization, in *Proceedings of the 2025 Annual Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics (NAACL).*
- Kang, P., Ko, Y., **Youm, S.**, Chun, Y., Davis, S., Connaughton, D. Application of Machine and Deep Learning Techniques on Sport Non-Fungible Token Tweets: Exploration of Perceived Values and Risks, *International Journal of Sports Marketing and Sponsorship.*
- Jayaweera, C., **Youm, S.**, Dorr, B. AMREx: AMR for Explainable Fact Verification in *Proceedings of the Seventh Fact Extraction and VERification Workshop (FEVER) on Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2024. https://doi.org/10.18653/v1/2024.fever-1.26
- Zhang, D., Xiao, B., Gao, C., **Youm, S.**, Dorr, B. Modeling Bilingual Sentence Processing: Evaluating RNN and Transformer Architectures for Cross-Language Structural Priming in *Proceedings of the Fourth Workshop on Multilingual Representation Learning (MRL 2024) on Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2024. https://doi.org/10.18653/v1/2024.mrl-1.8
- Martinez, M., Schmer-Galunder, s., Liu, Z., **Youm, S.**, Jayaweera, C., Dorr, B. Balancing Transparency and Accuracy: A Comparative Analysis of Rule-Based and Deep Learning Models in Political Bias Classification in *Proceedings of the Second Workshop on Social Influence in Conversations (SICon 2024) on Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2024. https://doi.org/10.18653/v1/2024.sicon-1.7

- **Youm, S**., Mather, B., Jayaweera, C., Prada, J., Dorr, B. DAHRS: Divergence-Aware Hallucination-Remediated SRL Projection. *The 29th International Conference on Natural Language & Information Systems (NLDB)*. 2024. https://doi.org/10.1007/978-3-031-70239-6_29
- Koo, S., **Youm, S.**, Shin, J. Cycle-GAN-based synthetic sonar image generation for improved underwater classification *Ocean Sensing and Monitoring XVI*. 2024. https://doi.org/10.1117/12.3016056
- Jang, S. H., **Youm, S.**, & Yi, Y. J. Anti-Asian Discourse in Quora: Comparison of Before and During the COVID-19 Pandemic with Machine- and Deep-Learning Approaches *Race and Justice*. 2023; 13(1): 55–79. https://doi.org/10.1177/21533687221134690
- Jang S. H., Gerend MA, **Youm S**, Yi Y. J. Understanding coronavirus disease 2019 (COVID-19) vaccine hesitancy: Evidence from the community-driven knowledge site Quora. *DIGITAL HEALTH*. 2022;8. https://doi.org/10.1177/20552076221145426
- Kim J, **Youm S**, Shan Y, Kim J. Analysis of Fire Accident Factors on Construction Sites Using Web Crawling and Deep Learning Approach. *Sustainability*. 2021; 13(21):11694. https://doi.org/10.3390/su132111694

Manuscript under review

- **Youm, S.**, Han, C., Yoo, H., Jang, S. H., Dorr, B. "I Still Need Your Help": Online Information Seeking Behavior Among International Students on Reddit, submitted to PLOS One.
- **Youm, S.**, Yoo, N., Jang, S. H., Dorr, B. How Mixed Emotions on Reddit Predict Depressive Symptoms in Asian American Families, submitted to Journal of Computational Social Science.
- **Youm, S.**, Jang, S.H., Kwak, H., Choi, J., Yi, Y.J. Cross-Cultural Vaccine Perceptions: Comparing COVID-19 Vaccine Public Discourse in the U.S. and South Korea using Natural Language Processing, submitted to the Journal of Health Communication

WORKING PROJECTS

Detecting Pragmatic Markers for Communication Effectiveness
- Develop pragmatic marker (e.g., politeness and formality) detection model using Semantic Role Labeling (SRL) for communication effectiveness

PROFESSIONAL SERVICE

Peer Review
- Computers in Human Behavior
- International Conference on Computational Social Science (IC2S2)

PRESENTATIONS

Academic Conference
- **Youm, S.**, Han, C.E., Jang, S.H. July 2024. Information-seeking Behavior Among International Students on Reddi: A Comparative Analysis Before and After Start of COVID-19. *10th International Conference on Computational Social Science (IC2S2)*
- **Youm, S.**, Yoo, N., Jang, S.H. July 2024. Beyond Positive or Negative: How Mixed Emotions on Reddit Predict Depressive Symptoms in Asian American Families. *10th International Conference on Computational Social Science (IC2S2)*
- **Youm, S.**, Jang, S. H., Yi, Y.J. April 2022. Understanding COVID-19 Vaccine Hesitancy: Evidence from Quora. *In proceeding of Society of Behaviour Medicine*

LEADERSHIP, AWARDS AND OTHERS

Excellent Project Award in Python Programming Bootcamp — August 2017
SungKyunKwan University(SKKU), Seoul, South Korea

Outstanding Performance Scholarship Awards — April, September 2017
SungKyunKwan University(SKKU), Seoul, South Korea

President of the student council — December 2016 – December 2017
Department of Data Science and Library and Information Science

Army Sergeant Discharge in Full Time — December 2011 - September 2013
Republic of Korea Army, Pocheon, South Korea

REFERENCES

Available upon request