SEO YEON PARK

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Education

University of Illinois at Chicago, Chicago, IL, USA　　　　　　　　Fall 2018 ~ Present (Expected 2023)
　　Doctoral of Philosophy in Computer Science
University of Southern California, Los Angeles, CA, USA　　　　　　　2016 ~ 2018
　　Master of Science in Computer Science
Ewha Womans University, Seoul, Republic of Korea　　　　　　　　　2012 ~ 2016
　　Bachelor of Science in Computer Science & Engineering (3.93/4.3, Magna Cum Laude)

Research and Work Experience

Research Assistant (Advisor: Prof. Cornelia Caragea) at University of Illinois at Chicago
　　　　　　　　　　　　　　　　　　　　　　　　　　　Fall 2019 ~Present

- ✓ **Deep Keyphrase Generation**
  Scholarly Document Keyphrase Extraction & Generation
  Scholarly Document Keyphrase Boundary Detection and Classification
- ✓ **Understanding Relation between Sentiment and Empathy**
  Encoding sentiment features to build a model using CNN, LSTM, that predicts the chance of empathy arousal on the generated dataset
  Augmenting document's sentiment polarity to raise the possibility of empathy arousal
  Generating an empathetic response based on the emotional context

Software Developer Intern at Cisco Systems, Inc. (San Jose, CA, USA)　　　Summer 2018
- ✓ iCam Project: Building Prediction Models in terms of Network Traffic and Resources using Machine Learning Techniques

Research Assistant (Advisor: Prof. Bhaskar Krishnamachari) at University of Southern California
　　　　　　　　　　　　　　　　　　　　　　　　　Spring 2017 ~ Fall 2018
- ✓ CHARIOT project; Implementing Revolutionized Personal Learning Framework based on IoT technologies using physiological sensor data, image and text dataset combining with cutting-edge cognitive science
- ✓ Design and Implement Emotion Analysis submodules of CHARIOT project within Image and Text

Teaching Experience

Teaching Assistant of University of Illinois at Chicago　　　　　　　　Fall 2018, Spring 2019
　　CS 141 Programming Design 2
Tutor in tutoring program of Ewha Womans University
　　CSE 20499-01 Programming Language Tutor　　　　　　　　　　Mar. 2015 ~ Jun. 2015
　　CSE 37271-01 Embedded System and Lab Tutor　　　　　　　　　Sep. 2015 ~ Dec. 2015

Publication

1. **Seo Yeon Park,** Cornelia Caragea, "Scientific Keyphrase Identification and Classification by Pre-Trained Language Models Intermediate Task Transfer Learning" In Proceedings of the 28th International Conference on Computational Linguistics (COLING 2020)
2. Yingjie Li, **Seo Yeon Park**, Cornelia Caragea, Doina Caragea, and Andrea Tapia. "Sympathy Detection in Disaster Twitter Data." In Proceedings of the 16th International Conference on Information Systems for Crisis Response and Management (ISCRAM 2019)
3. Hayeon Choi, Jiwan Yun, **Seoyeon Park**, Yesol Kim, Sangsoo Park, "Long-tailed watch dog timer improving running time for real-time embedded system based on STM32F4", Journal of Korean Multimedia Society, Vol. 18, No. 6, 2015, pp. 723~733
4. **Seoyeon Park**, Minjung Shin, Hajeong Lee, Hyunji Bae, Mijung Lee, "The service of providing restaurants' extracted information by word cloud based on SNS data", Proc. of Korean Institute of Communications and Information Sciences 2015 Autumn Annual Conference, Nov., 2015

Honor and Award

6 times Honors Scholarships in The College of Engineering, Ewha Womans University (2013~2015)

Skill Sets

Pytorch, Keras, Tensorflow, Google Cloud Platform(GCP), AWS, NLTK, Gensim, Scikit-Learn, Python, C++, Java, R, Arduino, ARM-Cortex4, SQL, Hadoop