

Seunghyun Yoon

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<http://david-yoon.github.io>

EDUCATION	Seoul National University , Seoul, Korea <i>Ph.D. Candidate in Department of Electrical and Computer Engineering</i> • Advisor: Professor Kyomin Jung 2017 - present
	Seoul National University , Seoul, Korea <i>M.S. in Department of Electrical and Computer Engineering</i> • Advisor: Professor Kyomin Jung • GPA : 3.92 / 4.3 Feb. 2017
	Handong Global University , Pohang, Korea <i>B.S. in Electrical and Electronics Engineering, Mechanical Engineering (dual)</i> • GPA : 3.82 / 4.5 Feb. 2006
RESEARCH INTERESTS	Question Answering (QA) System • QA pair ranking algorithm • reading comprehension QA Dialogue Model • language adaptation (personalization) • emotional discourse model (multi-modal)
PROFESSIONAL EXPERIENCES	Researcher Research scientist intern at Adobe Research , San Jose, US • Sentence-level answer selection for QA (paper, patent) • Speech emotion recognition (paper, patent) Sep. 2018 – Dec. 2018 Visiting Researcher at Automation & Systems Research Institute , Seoul, Korea • QA pair ranking algorithm for long-document Mar. 2017 – Aug. 2017 Senior Engineer at Samsung Research AI , Seoul, Korea • question answering system, information retrieval, ranking algorithm • developing social service platform (front-end, back-end) Feb. 2006 – Mar. 2017 Facilitator Representative of employees, Hangajok Council at Samsung , Korea • participated in labor-management consultation council Jan. 2012 – Jun. 2014 Trainer of Global New Employee Course at Samsung , Korea • served as a Samsung “global new employee training course” trainer (English) Jan. 2011 – Jul. 2011

ACADEMIC
ACTIVITIES

Program Committee NAACL-19

Teaching Assistant

Programming Methodology, Seoul Nat'l Univ.	Spring 2018
Lab. Sentiment Analysis, BigCamp (Big Data Academy), Big Data Institute	2016-2018
Topics in Computer and VLSI (Machine Learning), Seoul Nat'l Univ.	Fall 2015

Talks

QA-pair ranking algorithm and its applications, Naver	Aug. 2018
Advancement of the Neural Dialogue Model, Fast Campus	Jul. 2018

PUBLICATIONS

1. S Byun, **S Yoon**, K Jung, "Neural Networks for Compressing and Classifying Speaker-Independent Paralinguistic Signals," in *Proc. of Big Data and Smart Computing (BigComp), IEEE International Conference on.*, 2019
2. **S Yoon**, K Park, J Shin, H Lim, S Won, M Cha, K Jung, "Detecting Incongruity Between News Headline and Body Text via a Deep Hierarchical Encoder," in *Proc. of AAAI Conference on Artificial Intelligence (AAAI) Oral Presentation*, 2019. (Acceptance Rate=16%)
3. **S Yoon**, S Byun, K Jung, "Multimodal Speech Emotion Recognition using Audio and Text," in *Proc. of IEEE Workshop on Spoken Language Technology (SLT)*, 2018.
4. Y Lee*, **S Yoon***, K Jung, "Comparative Studies of Detecting Abusive Language on Twitter," in *Proc. of Empirical Methods in Natural Language Processing (EMNLP) Workshop on Abusive Language Online*, 2018.
5. **S Yoon**, J Shin, K Jung, "Learning to Rank Question-Answer Pairs using Hierarchical Recurrent Encoder with Latent Topic Clustering," in *Proc. of Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)*, 2018. (Acceptance Rate=31%)
6. J Shin, Y Kim, **S Yoon**, K Jung, "Contextual-CNN: A Novel Architecture Capturing Unified Meaning for Sentence Classification," in *Proc. of Big Data and Smart Computing (BigComp), IEEE International Conference on.*, 2018.
7. **S Yoon**, P Estrada, K Jung, "Synonym Discovery with Etymology-based Word Embeddings," in *Proc. of Computational Intelligence (SSCI), IEEE Symposium Series on.*, 2017.
8. **S Yoon**, H Yun, Y Kim, G Park, K Jung, "Efficient Transfer Learning Schemes for Personalized Language Modeling using Recurrent Neural Network," in *Proc. of AAAI Conference on Artificial Intelligence (AAAI) Workshop on Crowdsourcing, Deep Learning and Artificial Intelligence Agents*, 2017.
9. **S Yoon**, M Sundar, A Gupta, K Jung, "Automatic Question Answering System for Consumer Products," in *Proc. of SAI Intelligent Systems Conference. Springer, Cham*, 2016.
10. K Park, J Kim, J Park, M Cha, J Nam, **S Yoon**, E Rhim, "Mining the Minds of Customers from Online Chat Logs," in *Proc. of the ACM International on Conference on Information and Knowledge Management (CIKM)*, 2015.
11. **S Yoon**, E Rhim, D Kim, "Domain Question Answering System," in *KIISE Transactions on Computing Practices*, 2015.
12. **S Yoon**, K Lee, H Shin, "Media clips: Implementation of an intuitive media linker," in *Proc. of Broadband Multimedia Systems and Broadcasting (BMSB), IEEE International Symposium on.*, 2011.

SKILLS

Excellence in Programming Languages: Java, C++, Python
Fluency in Deep Learning Framework: Tensorflow
Fluency in front-end sever design: Apache Tomcat, Spring Framework, AWS, Linux
Familiarity with back-end sever design: NoSQL

HONORS AND
AWARDS

5th place / 71 teams, Natl' AI R&D Fake News Challenge, Ministry of Science and ICT, Korea	2017
Scholarship for M.S. degree , Samsung Electronics	2015-2016
Best Paper Presentation , Korea Computer Congress, 2014	2014

PATENTS

1. J Nam, M Lee, M Koo, S Yoon, "Method of recommending application, mobile terminal using the method, and communication system using the method," *issued patent, US 9,247,376*, Jan. 26, 2016
2. S Yoon, M Lee, "Method and apparatus for displaying photo on screen having any shape," *issued patent, US 9,049,383*, Jun. 2, 2015
3. S Yoon, M Lee, M Koo, J Nam, "Method and apparatus for providing information and computer readable storage medium having a program recorded thereon for executing the method," *issued patent, US 8,958,824*, Feb. 17, 2015
4. S Yoon, S Kim, "Method and apparatus for fast tracking position by using global positioning system," *issued patent, US 8,094,070*, Jan. 10, 2012
5. E Rhim, J Kim, J Nam, S Yoon, K Park, J Park, M Cha, "Method and device for analyzing user's emotion," *pending patent, PCT/KR1020160058782*, May. 13, 2016
6. Y Won, S Yoon, O Kwon, M Kim, H Oh, S Lee, S Cha, "User terminal device, information providing system, and method for providing information," *pending patent, US 14/511,506, EP20140185800*, Oct. 10, 2014
7. Y Kim, O Kwon, S Kim, H Oh, S Yoon, S Cha, J Lee, "Terminal apparatus, server and method of controlling the same," *pending patent, US 14/250,081, CN 201410085759, EP20140154718*, Apr. 10, 2014
8. S Yoon, M Lee, M Koo, J Nam, "Apparatus and method for searching with consideration user's action," *pending patent, US 13/631,353*, Sep. 28, 2012
9. S Yoon, M Lee, M Koo, J Nam, "Apparatus and method for clipping and sharing content at a portable terminal," *pending patent, US 13/629,394, CN 201280047213, EP20120837007, PCT/KR1020110097578*, Sep. 27, 2012
10. S Yoon, "Apparatus and method for correcting position information of portable terminal in multi-path zone," *pending patent, US 13/604,528*, Sep. 5, 2012
11. K Kim, J Lee, W Park, H Shim, Y Park, M Lee, M Koo, S Yoon, J Nam, "Method and apparatus for connecting devices," *pending patent, US 13/452,766, EP20120162473, PCT/KR1020110037351*, Apr. 20, 2012
12. S Yoon, S Maeng, J Huh, S Seo, J Kim, J Park, "Method and apparatus for crawling webpages," *pending patent, US 13/116,785*, May. 26, 2011

PATENTS
KOREAN

1. S Yoon, M Lee, M Koo, J Nam, "Method and apparatus for providing information, and computer readable storage medium," *issued patent, KR 1017731670000*, Aug. 24, 2017
2. J Nam, M Lee, M Koo, S Yoon, "Method for recommendation of application, mobile terminal thereof and communication system thereof," *issued patent, KR 1017473030000*, Jun. 8, 2017
3. S Yoon, S Kim, "Method and apparatus for fast positioning using global positioning system," *issued patent, KR 1015649380000*, Oct. 27, 2015
4. K Jung, S Yoon, J Shin, H Kwak, S Byun, "Artificial intelligence based dialog system and response control method thereof," *pending patent, KR 1020170158345*, Nov. 24, 2017
5. S Yoon, S Lee, O Kwon, M Kim, H Oh, Y Won, S Cha, "Method and apparatus for changing personal information," *pending patent, KR 1020130122222*, Oct. 14, 2013
6. S Yoon, J Nam, M Koo, M Lee, "Apparatus and method for collecting information of destination in portable terminal," *pending patent, KR 1020130065793*, Nov. 30, 2011
7. J Nam, M Lee, M Koo, S Yoon, "Apparatus and method for setting manner mode in portable terminal," *pending patent, KR 1020110113927*, Nov. 3, 2011