

Seunghyun Yoon

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

EDUCATION	<p>Seoul National University, Seoul, Korea <i>Ph.D. Candidate in Department of Electrical and Computer Engineering</i> 2017 - present</p> <ul style="list-style-type: none">• Advisor: Professor Kyomin Jung
	<p>Seoul National University, Seoul, Korea <i>M.S. in Department of Electrical and Computer Engineering</i> Feb. 2017</p> <ul style="list-style-type: none">• Advisor: Professor Kyomin Jung• GPA : 3.92 / 4.3
	<p>Handong Global University, Pohang, Korea <i>B.S. in Electrical and Electronics Engineering, Mechanical Engineering (dual)</i> Feb. 2006</p> <ul style="list-style-type: none">• GPA : 3.82 / 4.5
RESEARCH INTERESTS	<p>Question Answering (QA) System</p> <ul style="list-style-type: none">• QA pair ranking algorithm• reading comprehension QA• sentence/word embedding <p>Dialogue Model</p> <ul style="list-style-type: none">• context-consistent response generation• language adaptation (personalization)• emotional discourse model
PROFESSIONAL EXPERIENCES	<p>Software Engineer</p> <p>Visiting Researcher at Automation & Systems Research Institute, Seoul, Korea Mar. 2017 – Aug. 2017</p> <ul style="list-style-type: none">• Machine Intelligence Lab.• research ranking model for question-answer pairs• natural language processing (dialogue model, QA) <p>Senior Engineer at Samsung Software R&D Center, Seoul, Korea Feb. 2006 – Mar. 2017</p> <ul style="list-style-type: none">• Artificial Intelligence Team• developing intelligence platform• question answering system, information retrieval, ranking algorithm• developing social service platform (front-end, back-end)• involved in concept projects (ideation-design-prototyping) <p>Facilitator</p> <p>Representative of employees, Hangajok Council at Samsung, Korea Jan. 2012 – Jun. 2014</p> <ul style="list-style-type: none">• elected employee representative by direct election• participated in labor-management consultation council <p>Trainer of Global New Employee Course at Samsung, Korea Jan. 2011 – Jul. 2011</p> <ul style="list-style-type: none">• served as a Samsung “global new employee training course” trainer• all the coursework had run in english

ACADEMIC ACTIVITIES	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	<ol style="list-style-type: none"> 1. <u>S Yoon</u>, J Shin, K Jung, "Learning to Rank Question-Answer Pairs using Hierarchical Recurrent Encoder with Latent Topic Clustering," <i>to be appear, Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)</i>, 2018. 2. J Shin, Y Kim, <u>S Yoon</u>, K Jung, "Contextual-CNN: A Novel Architecture Capturing Unified Meaning for Sentence Classification," <i>in Proc. of Big Data and Smart Computing (BigComp), IEEE International Conference on.</i>, 2018. 3. <u>S Yoon</u>, P Estrada, K Jung, "Synonym Discovery with Etymology-based Word Embeddings," <i>in Proc. of Computational Intelligence (SSCI), IEEE Symposium Series on.</i>, 2017. 4. <u>S Yoon</u>, H Yun, Y Kim, G Park, K Jung, "Efficient Transfer Learning Schemes for Personalized Language Modeling using Recurrent Neural Network," <i>in Proc. of the Thirty-First AAAI Conference on Artificial Intelligence (AAAI) Workshop on Crowdsourcing, Deep Learning and Artificial Intelligence Agents</i>, 2017. 5. <u>S Yoon</u>, M Sundar, A Gupta, K Jung, "Automatic Question Answering System for Consumer Products," <i>in Proc. of SAI Intelligent Systems Conference. Springer, Cham</i>, 2016. 6. K Park, J Kim, J Park, M Cha, J Nam, <u>S Yoon</u>, E Rhim, "Mining the Minds of Customers from Online Chat Logs," <i>in Proc. of the ACM International on Conference on Information and Knowledge Management (CIKM)</i>, 2015. 7. <u>S Yoon</u>, E Rhim, D Kim, "Domain Question Answering System," <i>in KIISE Transactions on Computing Practices</i>, 2015. 8. <u>S Yoon</u>, K Lee, H Shin, "Media clips: Implementation of an intuitive media linker," <i>in Proc. Broadband Multimedia Systems and Broadcasting (BMSB), IEEE International Symposium on.</i>, 2011. 	
SKILLS	<p>Excellence in Programming Languages: Java, C++, Python</p> <p>Fluency in Deep Learning Framework: Tensorflow</p> <p>Fluency in front-end sever design: Apache Tomcat, Spring Framework, AWS, Linux</p> <p>Familiarity with back-end sever design: NoSQL</p>	
HONORS AND AWARDS	<p>5th place / 71 teams, Natl' AI R&D Fake News Challenge, Ministry of Science and ICT, Korea</p> <p>Scholarship for M.S. degree, Samsung Electronics</p> <p>Best Paper Presentation, Korea Computer Congress, 2014</p>	<p>2017</p> <p>2015-2016</p> <p>2014</p>

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

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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