

Seunghyun Yoon

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

EDUCATION

- Seoul National University**, Seoul, Korea
Ph.D. Candidate in Department of Electrical and Computer Engineering 2017 - present
- Advisor: Professor Kyomin Jung
- Seoul National University**, Seoul, Korea
M.S. in Department of Electrical and Computer Engineering Feb. 2017
- Advisor: Professor Kyomin Jung
 - GPA : 3.92 / 4.3
- Handong Global University**, Pohang, Korea
B.S. in Electrical and Electronics Engineering, Mechanical Engineering (dual) Feb. 2006
- GPA : 3.82 / 4.5

RESEARCH INTERESTS

Question Answering (QA) System

- QA pair ranking algorithm
- reading comprehension QA
- sentence/word embedding

Dialogue Model

- context-consistent response generation
- language adaptation (personalization)
- emotional discourse model

PROFESSIONAL EXPERIENCES

Software Engineer

- Visiting Researcher at **Automation & Systems Research Institute**, Seoul, Korea Mar. 2017 – Aug. 2017
- Machine Intelligence Lab.
 - research ranking model for question-answer pairs
 - natural language processing (dialogue model, QA)
- Senior Engineer at **Samsung Software R&D Center**, Seoul, Korea Feb. 2006 – Mar. 2017
- 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)
- ### Facilitator
- Representative of employees, Hangajok Council at **Samsung**, Korea Jan. 2012 – Jun. 2014
- elected employee representative by direct election
 - participated in labor-management consultation council
- Trainer of Global New Employee Course at **Samsung**, Korea Jan. 2011 – Jul. 2011
- 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	
	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>Best Paper Presentation, Korea Computer Congress, 2014</p>	<p>2017</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 users' 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