Younghun Lee

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Profile

Computer Science Ph.D. student interested in **machine learning** applications for **natural language processing**. Proficient in academic research, software development, information retrieval, and social network analysis.

Education

Aug 2019 to Present	 Ph.D. in Computer Science at Purdue University, West Lafayette, Indiana Study Emphasis: Natural Language Processing, Advisor: Dan Goldwasser
Sep 2015 to Apr 2017	 M.S. in Information at University of Michigan, Ann Arbor, Michigan Study Emphases: Information Retrieval and Human-computer Interaction
Mar 2008 to Feb 2015	 B.S. in Electrical and Computer Engineering at Seoul National University Study Emphases: Applied Electrical Engineering and Information Visualization

Publications

Younghun Lee, Seunghyun Yoon and Kyomin Jung, <u>Comparative Studies of Detecting Abusive Language on Twitter</u>, EMNLP 2018 Workshop on Abusive Language Online, Oct 2018, Brussels, Belgium

Selected Projects

Feb 2017 to Apr 2017	Revealing the Network and Diffusion Patterns of False Information
	• Retrieved Twitter messages containing URLs of false information, modeled friends and follower network graphs on Twitter, analyzed them with graph centrality measures, and identified characteristics of false information
Nov 2016 to Dec 2016	Investigating the Effect of Presidential Election Results on Hate Crimes
	• Developed a Python program with NLTK in order to retrieve Twitter messages on hate crimes, analyze the sentiment of each message, and investigate the statistical significance of a null hypothesis with t-statistics
May 2014 to Jun 2014	Sawtooth Bubble Chart—Visualizing Human Emotion (Summary Paper)
	 Implemented a model that visualizes arousal and valence level of human emotion of each tweet using Affective Norms for English Words dictionary
Mar 2014 to May 2014	Korean Text Analysis—Relevancy Visualization of Morphemes
	• Developed a vector space model that parses an article written in Korean, calculates the intensity of relevancy between meaningful words by cosine similarities
Dec 2013 to Jan 2014	Visualizing Articles with Different Viewpoints
	• Built a web application that parses two articles of the same subject into morphemes, classifying their similarities and differences, and visualizing them with word clouds
Professional Experience	ce
Jun 2016 to Aug 2017	UX Developer Intern at Gale Cengage Learning, Farmington, Michigan
C	• Developed a web application for internal salespeople to help them demonstrate the value of Gale's resources and recommend suitable products to customers
Nov 2015 to Apr 2016	Research Assistant at IRIS (Institute for Research on Innovation & Science)
	• Improved the usability of IRIS portal webpage dashboard by implementing 6 main features (PHP, JavaScript, JQuery)
	• Altered $O(n^2)$ key generation algorithm into $O(n)$ by implementing a hash table
Jan 2015 to Jul 2015	 Associate Software Engineer at Samsung Electronics Co., Ltd., Suwon, South Korea Achieved 2nd place in the Creative Idea Competition held by Digital Media and Communication R&D Center