

# NAJOUNG KIM

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EDUCATION	<b>Johns Hopkins University</b> Ph.D. student, Cognitive Science Advisors: Paul Smolensky and Kyle Rawlins	2016–current
	<b>Johns Hopkins University</b> M.A. Cognitive Science	2016–2017
	<b>University of Oxford</b> M.St., General Linguistics & Comparative Philology Concentration & Thesis focus: Computational Linguistics	2014–2015 Distinction
	<b>Seoul National University</b> B.A. English Linguistics & Literature B.A. Linguistics (double major) Minor: Computer Science & Engineering	2009–2013 Summa Cum Laude
WORKS IN PROGRESS	<b>Najoung Kim</b> , Jung-Ho Kim, Maria K. Wolters, Sarah E. MacPherson, and Jong C. Park. “Automatic Scoring of Semantic Fluency.” [abstract] (journal article under review)	
	<b>Najoung Kim</b> , “Blended trees for a unified semantic analysis for prepositional phrases.” (abstract under review)	
	<b>Najoung Kim</b> , Kyle Rawlins, and Paul Smolensky. “Motivating gradient symbolic blends—case of English prepositional phrases.” (journal article in preparation)	
PUBLICATIONS	<b>Najoung Kim</b> , Kyle Rawlins, Benjamin Van Durme, and Paul Smolensky. “Predicting the Argumenthood of English Prepositional Phrases.” To appear in the <i>Proceedings of the 33rd AAAI Conference on Artificial Intelligence (AAAI)</i> , 2019. [arXiv]	
	Sam Bowman, Ellie Pavlick, Edouard Grave, Benjamin Van Durme, Alex Wang, Jan Hula, Patrick Xia, Raghu Pappagari, Tom McCoy, Roma Patel, <b>Najoung Kim</b> , Ian Tenney, Katherin Yu, Shuning Jin, and Berlin Chen. “Looking for ELMo’s friends: Sentence-Level Pretraining Beyond Language Modeling.” 2018. [arXiv]	
	Ian Tenney, Patrick Xia, Berlin Chen, Alex Wang, Adam Poliak, R Thomas McCoy, <b>Najoung Kim</b> , Benjamin Van Durme, Sam Bowman, Dipanjan Das, and Ellie Pavlick. “What do you learn from context? Probing for sentence structure in contextualized word representations.” To appear in <i>International Conference on Learning Representations (ICLR)</i> . 2019. [pdf]	
	Maria K. Wolters, <b>Najoung Kim</b> , Jung-Ho Kim, Sarah E. MacPherson, and Jong C. Park. “Prosodic and Linguistic Analysis of Semantic Fluency Data: A Window into Speech Production and Cognition,” <i>Interspeech</i> , 2016. [doi] [pdf]	

Jung-Ho Kim, **Najoung Kim**, Hancheol Park, and Jong C. Park. "Enhanced Sign Language Transcription System via Hand Tracking and Pose Estimation," *Journal of Computing Science and Engineering* vol 10.3, 2016.

**Najoung Kim** and Jong C. Park. "A Morphological Approach to the Longitudinal Detection of Dementia," *Proceedings of HCI Korea 2016, The HCI Society of Korea*, 2016. [link] [pdf]

## PEER-REVIEWED PRESENTATIONS

**Najoung Kim**, Benjamin Van Durme, Ellie Pavlick and Paul Smolensky. "Linguistically informed tasks for evaluating structure encoded by sentence representations," *WeCNLP Summit*, Facebook HQ, Menlo Park, CA, Sep 2018. [poster] [slides]

**Najoung Kim**, Kyle Rawlins, and Paul Smolensky. "A gradient blend analysis of English PP verbal dependents," *Conference on Interdisciplinary Approaches to Linguistic Theory (CiALT) 2*, Humboldt-Universität zu Berlin, Oct 2018. [abstract]

**Najoung Kim**, Kyle Rawlins, and Paul Smolensky. "A gradient blend analysis of English PP verbal dependents," *Acceptability judgments in current linguistic theory*, Universitat Autònoma de Barcelona, Oct 2018. [slides]

## OTHER TALKS / TUTORIALS

Semantic Role Labeling Tutorial (**Najoung Kim**, Diego Marcheggiani, Michael Roth, and Benjamin Van Durme), EMNLP, Copenhagen, Sep 2017.

**Najoung Kim**, Jung-Ho Kim, Maria K. Wolters, Sarah E. MacPherson, and Jong C. Park. "Approximating the Semantic Structures behind Category Fluency Sequences (Poster)," *MACSIM 6 at CUNY*, New York, Oct 2016. [abstract]

"Detection and Categorisation of Neograms in Korean Text (+a)," Invited talk at Ertegun House, Oxford, 2015.

"Corpus Tools: Past, Present, and Future," Talk & Event Organiser (Guest speaker: Laurence Anthony), Ertegun House, Oxford, 2015.

## EXPERIENCES

**Graduate student researcher** Jun-Aug 2018  
*The Fifth Frederick Jelinek Memorial Summer Workshop (JSALT)*

- General-purpose Sentence Representation Learning team (PIs: Sam Bowman, Ellie Pavlick)
- Designed linguistically-informed probing tasks for interpretability of sentence representations learned by neural networks

**Visiting researcher** 2015-2016  
*NLP\*CL Lab, School of Computing, Korea Advanced Institute of Science and Technology*

- Computational semantics
- Modeling diachronic changes in productive language use to aid early diagnosis of mild cognitive impairment
- Dynamic clustering with fluid category boundaries for improved performance measures in Category Fluency Tasks
- Corpus annotation for gene-depression relations

**Intern developer** 2013-2014  
*Knowledge Extraction Team (Former NLP Team), NAVER Corporation*

- Developed an article suggestion algorithm for search autocomplete
- Worked on question/keyword detection

- Worked on identifying domained queries and query patterns that require specific answers
- Translated and summarized AI-related papers

**Trainee developer** 2013

*NHN Software Membership*

- Received professional education in software development
- Led a group project developing a functioning web-based service
- Awarded for overall performance

**AWARDS** **Owen Scholarship** 2016-2019  
Johns Hopkins University

**Mica and Ahmet Ertegun Graduate Scholarship Programme in the Humanities** 2014-2015  
Full scholarship for Master's degree (University of Oxford)

**Department Assistant** 2013-2014  
Scholarship position (Department of English Lit. & Ling. at SNU)

**SNU Undergraduate Research Program** 2013  
Grant for selected undergraduate research proposals

- Conducted an independent research project on productivity quantification
- Research grant (\$3000)

**Foundation Funds Scholarship** 2013  
**SNU Superior Academic Performance Scholarship** 2010-2011  
Awarded for academic performance

**TEACHING** Spring 2018, TA for Foundations of Cognitive Science (with Paul Smolensky)

- Led class discussion for graduate and undergraduate sections
- Provided feedback on weekly assignments

Fall 2017, TA for Semantics I (with Kyle Rawlins)

- Led weekly review sessions

Spring 2017, TA for Language and Advertising (with Kyle Rawlins)

Winter 2014, Tutor for Samsung Convergence Software Course, SNU

- Led help sessions for CS undergraduates and double-major/minor students
- Guest lecture: 'Introduction to Python'

**THESES** "Automatic Detection and Classification of Neograms in Korean Text,"  
MSt thesis, University of Oxford, 2015. (Advisors: Ash Asudeh, Stephen Pulman)

"A Research on Productivity Quantification Through Web-based Corpus Construction and Analysis on Korean Derivational Affixes,"  
B.A. dissertation, Department of Linguistics, Seoul National University, 2013.  
(Advisor: Jongho Jun; project funded by SNU Undergraduate Research Program)

"Verbal Structures of English Genitive Constructions Containing Deverbal Nouns,"  
B.A. dissertation, Department of English Linguistics & Literature, Seoul National

University, 2013. (Advisor: Heok-Seung Kwon)

**COMPUTER  
SKILLS**

Python, R, HTML (proficient)  
Java, C, Scheme/Racket, OCaml (basic)  
PyTorch

**LANGUAGES**

Korean (native); English (near-native); Spanish (intermediate, DELE Intermedio);  
Japanese (reading knowledge, JLPT N1)

**PROFESSIONAL  
MEMBERSHIP**

Linguistic Society of America  
Association for Computational Linguistics  
Association for the Advancement of Artificial Intelligence

**PROFESSIONAL  
SERVICE**

Reviewer for EMNLP 2018

**VOLUNTEER  
WORK**

<b>Colloquium student committee</b>	2018–
<i>Department of Cognitive Science, Johns Hopkins University</i>	
 <b>Peer tutor</b>	2011
<i>Seoul National University</i>	
• Taught 1st and 2nd year students English	
 <b>English tutor</b>	2010
<i>YOUNGNAK High School</i>	
• Taught high school students English grammar	