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Seongmin Mun

Seongmin is a Ph.D. candidate in University Paris Ouest Nanterre. His research interests include language recognition system, computational linguistics, data visualization, and machine learning. Seongmin is currently working as a graduate student researcher and also a freelance data analysis lecturer.

Education

Mar 2016 - Jul 2020
Ph.D. candidate in sciences du langage, University Paris Ouest Nanterre, Supervisor: Guillaume Desagulier
Expected completion: July 2020

Mar 2014 - Feb 2016
Master in media contents, Ajou University, Supervisor: Kyungwon Lee

Mar 2008 - Feb 2014
Bachelor of science degree in statistics, Pyeongtaek University

Skills & Endorsements

Industry Knowledge
- Deap Learning
- Neural Network
- Machine Learning
- Statictics
- Linguistics
- NLP
- Data Visualization
- Web Based System

Computer Language
- Java
- Python
- PHP
- JavaScript
- SQL
- R
- HTML/CSS

Statistics Software
- R
- SPSS
- SAS
- MATLAB

Honors and Awards

Nov 2018
Excellent paper award from Archives of Design Research, 2018 KSDS Fall International Conference

Mar 2018
Award citation from the Minister of Education, Korea, The Education Ministry, National Research Foundation of Korea, NRF, Brain Korea 21

Jul 2016
The Longlist, Interactive Visualization, Kantar Information is Beautiful Awards 2016

Publications

Journals

<u>S. Mun</u>, (<u>invited</u>; under review). *Towards a better annotation system for Korean adverbial postpositions: Challenges for development research*, Special issue in Korean Linguistics

H. Ha, H. Han, <u>S. Mun</u>, S. Bae, J. Lee, and K. Lee, *An Improved Study of Multilevel Semantic Network Visualization for Analyzing Sentiment Word of Movie Review Data*, Applied Sciences, 13 Jun 2019

H. Ha, <u>S. Mun</u>, G. Choi, E. Hong, S. Lee, and K. Lee, *Visual Analysis on the Political Orientation of Historical Characters in the Joseon Dynasty: Focusing on Seo, Geojeong*, Archives of Design Research, vol.32, no.1, pp. 147-161, Feb 2019

<u>S. Mun</u>, G. Choi, G. Desagulier, and K. Lee, *PreechVis: Visual Profiling using Multiple-word Combinations*, Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (IVAPP2018), pp. 97-107, Jan 2018

K. Lee, J. Lee, D. Kim, J.e Park, <u>S. Mun</u>, Y. Jang, and J. Park, *Controversy Visualization- How Controversial Public Discourse in Wikipedia Articles Evolves over Time*, Archives of Design Research, vol.30, no.4, pp. 57-69, Nov 2017

<u>S. Mun</u>, G. Choi, S. Lee, and K. Lee, *Visual analysis for voting relationships in Joseon Dynasty, Korea*, Proceedings of the 10th International Conference on ICT, Society and Human Beings, pp. 111-118, Jul 2017

<u>S. Mun</u>, and K. Lee, *Data analysis by Integrating statistics and visualization : Visual verification for the prediction model*, Journal of Society of Design Convergence, vol.15, no.6, pp. 195-214, Dec 2016

S. Park, E. Jo, H. Lee, <u>S. Mun</u>, and K. Lee, *Analysis of corporate twitter usage types and Influence Visualization on Key Players*, Journal of Society of Design Convergence, vol.15, no.6, pp. 129-144, Dec 2016

H. Ha, H. Han, <u>S. Mun</u>, S. Bae, J. Lee, and K. Lee, *Visualization of movie recommendation system using the sentimental vocabulary distribution map*, The Korea Society of Computer and Information, vol.21, no.5, pp. 19-29, May 2016

<u>S. Mun</u>, G. Kim, G. Choi, and K. Lee, *Movie Recommended System base on Analysis for the User Review utilizing Ontology Visualization*, Journal of Society of Design Convergence, vol.15, no.2, pp. 347-368, Apr 2016

S. Park, E. Jo, H. Lee, <u>S. Mun</u>, and K. Lee, *Analysis of Corporate Twitter Usage Types and Influence Visualization on Key Players*, Proceedings of the IADIS International Conference Web Based Communities, pp. 122-131, Jul 2015

H. Choi, **S. Mun**, H. Ha, and K. Lee, *Proximity based Circular Visualization for similarity analysis of voting patterns between nations in UN General Assembly*, Journal of Society of Design Convergence, vol.14, no.4, pp. 133-150, Aug 2015

S. Mun, H. Ha, and K. Lee, *Relationship Analysis between the Box Office Performance and Sentimental Words in Movie Review*, Journal of Society of Design Convergence, vol.14, no.4, pp. 1-16, Aug 2015

S. Mun, H. Han, H. Ha, and K. Lee, *A Visual Analysis on Factors Affecting Repurchase Intention in Social Commerce*, Journal of Society of Design Convergence, vol.13, no.6, pp. 139-152, Dep 2014

Posters

S. Mun, and G. Shin, *Context window and polysemy interpretation: A case of Korean adverbial postposition (u)lo.*, IMPRS Conference 2020: Interdisciplinary Approaches to the Language Sciences, Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, Jun 2020

G. Shin, and **S. Mun**, *Bayesian modelling of clause-level constructional knowledge for Korean-speaking preschool children.*, IMPRS Conference 2020: Interdisciplinary Approaches to the Language Sciences, Max Planck Institute for Psycholinguistics, Nijmegen, the Netherlands, Jun 2020

S. Mun, *A computational approach to resolve the polysemy of postpositions in Korean*, COLDOC 2019, Colloque de doctorants et de jeunes chercheurs en Sciences du langage, Nov 2019

W. Guo, S. Kim, **S. Mun**, and K. Lee, *BubbleUp: Toward Better Analysis for Temporal Event Data*, IEEE VIS 2018, Scientific Visualization, Information Visualization and Visual Analytics, Oct 2018

S. Mun, G. Desagulier, and K. Lee, *How can we capture Multiword Expressions?*, 5th International Conference on Statistical Language and Speech Processing (SLSP2017), Oct 2017

S. Bae, **S. Mun**, G. Choi, S. Lim, S. Bang, S. Son, C. Hong, H. Shin, and K. Lee, *Visualization based sankey diagram for decision making tree analysis*, ACM, Computer Graphics International 2017 (CGI2017), Jun 2017

S. Mun, G. Desagulier, and K. Lee, *A visual approach for text analysis using multiword topics*, IEEE, EuroVis 2017, 19th EG/VGTC Conference on Visualization, Jun 2017

S. Bae, **S. Mun**, G. Choi, S. Lim, S. Bang, S. Son, C. Hong, H. Shin, and K. Lee, *Decision tree analysis utilizing sankey diagram*, Academic Association of Global Cultural Contents (AAGCC), Oct 2016

S. Choi, J. Kim, S. Kim, **S. Mun**, K. Kim, and K. Lee, *Analysis of Linguistic Difference in Writing Primed with Regulatory Focus*, The Sixth International Conference on Language, Literature, Culture and Education (ICLLCE) 2016, Aug 2016

S. Mun, G. Kim, G. Choi, and K. Lee, *Visual Trend Analysis Method for Ontology based Opinion Mining on Movie Review*, 13th International Conference on Web Based Communities and Social Media 2016, Jul 2016

S. Mun, G. Kim, R. M. Karim, and K. Lee, *Internet Review Opinion Mining and Data Visualization*, Symposium on Visualization in Data Science (VDS at IEEE VIS 2015), Oct 2015

H. Ha, **S. Mun**, O. Kwon, and K. Lee, *Proximity Based Circular Visualization for Similarity Analysis of UNGA Voting Patterns*, IEEE International Symposium on Big Data Visual Analytics, Sep 2015

Research Presentations

S. Mun, and G. Shin, *Context window size and polysemy: A case of adverbial particle (u)lo in Korean*, The international conference of quantitative linguistics in Asia (QUALICO 2020), National Institute for Japanese Language and Linguistics (NINJAL), Tokyo, Japan, Sep 2020

S. Mun, and G. Shin, *How does context window size address polysemy of adverbial postposition -(u)lo in Korean?*, The 11th International Conference on Construction Grammar (ICCG11), University of Antwerp, Belgium, Aug 2020

G. Shin, and **S. Mun**, *Bayesian simulation of Korean-speaking childrens constructional knowledge about transitive events.*, The 11th International Conference on Construction Grammar (ICCG11), University of Antwerp, Belgium, Aug 2020

S. Mun, I. Wang, G. Desagulier, G. Choi, and K. Lee, *Fruit flies like a banana : Parsing multiword constructions with DepVis*, Digits, internal reflection, and the study of linguistics., Hankuk University of Foreign Studies, Dec 2018

G. Choi, T. Yoon, C. Park, S. Lee, H. Choi, C. Park, J. Kang, **S. Mun**, and K. Lee, *A Visual Analysis of Power Relations among People on Time-series Data Using Network Visualization: Focusing on 19th National Assembly Data in Korea*, 43rd Annual Meeting of the Social Science History Association, Dec 2018

S. Mun, I. Wang, G. Desagulier, G. Choi, and K. Lee, *Time flies like an arrow and fruit flies like a banana; parsing multiword constructions with DepVis*, The 10th International Conference on Construction Grammar(ICCG10), Paris Sorbonne University, France, Jul, 2018

G. Desagulier, A. Lacheret-Dujour, F. Isel, and **S. Mun**, *Characterizing discourse genres with prosodic features in a reference treebank of spoken French*, Aflicojet2018, Corpora and Representativeness, Nanterre ,France, May 2018

S. Mun, G. Desagulier, A. Lacheret-Dujour, and K. Lee, *How can we capture multiword expressions?*, The day of Ph.D students in MODYCO, Jun 2017

S. Mun, H. Han, G. Choi, T. Yun, J. Kim, and K. Lee, *Hierarchical Network Visualization Approach to Power Mechanism in Medieval Joseon Korea*, 41st Annual Meeting of the Social Science History Association, Nov 2016

S. Mun, G. Choi, H. Han, J. Kim, and K. Lee, *VoteStreamVis: Visual Analysis of Congressional Votes in the Annals of the Joseon Dynasty*, Interdisciplinary Research Methodology for 'Big Data' in Historical Studies; The beginning of 'Digital History', Korea Research Foundation, Jun 2016

S. Lee, H. Choi, **S. Mun**, H. Han, H. Ha, and K. Lee, *Visualization Approach to a Korean Genealogy Data*, 2014 The 1st International Symposium on Digital Humanities, Digital Humanities and Culture : Trends and Prospects, Dec 2014

Projects

Development of R Package for Automation of Natural Language Processing
R Package Developer, Paris 8 University, Institut Universitaire de France, Feb 2019 - Present

Building data archives for children's language learning research
Digital Archive Datasets Developer, Sorbonne University, CNRS, 1 Nov 2018 - 28 Feb 2019

Towards Better Analysis With Multiword Expressions for Natural Language Processing
Core Development Researcher, Joint research on international cooperation, Ajou University, Dec 2017 - Dec 2018

Predictive Analysis of road traffic accident using text mining techniques
Visual System Development Researcher, 'See-At' Technology Development Project of Meteorological Agency, Korea Meteorological Industry Promotion Agency, Korea Insurance Development Institute, Mar 2015 - Dep 2015

Power Mechanism in Korean History Based on 'Big Data' Analysis
Visual System Development Researcher, 2015 Interdisciplinary Convergence Research Support Project, National Research Foundation of Korea, NRF, Nov 2014 - Nov 2018

Lectures

Examine history through statistics with R
Programming assistant, Lecturer in charge: S. Lee, Korea University, Oct 2018 - Nov 2018

Recipes : Data handling and analysis with R
Lecturer in charge: **S. Mun**, Ajou University, July 2018 - Aug 2018

Recipes : Text mining with R
Lecturer in charge: **S. Mun**, Ajou University, May 2018 - Jun 2018

Text Mining on Historical Data
Programming assistant, Professor in charge: S. Lee, Ajou University, Sep 2015 - Dec 2015, Mar 2016 - Jun 2016, Mar 2018 - Jun 2018

Visual Information Graphics (2015, 1st Semester)
Programming assistant, Professor in charge: K. Lee, Ajou University, Mar 2015 - Jun 2015

Visual Analysis on Historical Data (2015, 1st Semester)
Programming assistant, Professor in charge: S. Lee, Ajou University, Mar 2015 - Jun 2015

Others

Scholarships
Master's Research Scholarship, Brain Korea 21, Sep 2014 - Feb 2015, Mar 2015 - Aug 2015, Sep 2015 - Feb 2016

Scholarships for Master's Tuition Fee, National Research Foundation of Korea, NRF, Brain Korea 21, Sep 2014, Mar 2015, Sep 2015

Special Admission Scholarship, Ajou University, Mar 2014

Certificates
Oracle Certified java Programmer, Oct. 2014. Issued by Oracle.

IT plus Lv.2, Oct. 2013. Issued by Korea chamber of Commerce Industry.

SAS Certified Base Programmer, Aug. 2013. Issued by SAP Korea.

Computer literacy Lv.2, Jun. 2013. Issued by Korea chamber of Commerce Industry.

Survey Analyst, Junior, May. 2013. Issued by Human Resources Development Service of Korea.