Namu Park

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Research Interests

Computer Science
- Machine Learning (Artificial Intelligence)
- Natural Language Processing: Machine Translation, Medical Information Retrieval, Summarization (Abstractive Summarization), Text Generation,
- Deep Representation Learning (Deep metric learning), especially using Triplet Network
- Signal Processing: Audio Classification, Feature Extraction (MFCC)
- Big Data Analysis

Economics
- Microeconomics (Impact on population, Labor Economics)
- Econometrics (Correlation, Causal Relationship)

Education

Yonsei University, Seoul, South Korea (Current GPA: 4.23/4.30)
- M.S. in Digital Analytics (2020 : expected)

Sogang University, Seoul, South Korea (GPA: 3.65/4.30, Triple major, *Magna Cum Laude*)
- B.S. in Convergence Software (2019)
- B.E. in Economics (2019)
- B.A. in French Language and Culture (2019)

Research/Teaching Experience

Research Assistant (Soft Computing Laboratory, Department of Computer Science, Yonsei)
- "Deep Learning-based Steering Noise Classification" with *Hyundai Mobis* (*Hyundai Motor Group*)
- "Poisonous Clause Detection using Word Embedding and Sentence Similarity Check" with *Samsung Engineering* (*Samsung*)"
- "Rule-based Semantic Graph Analysis using Chat Log" with *Electronics and Telecommunication Research Institute, Korea*

Yonsei Digital Analytics
- "Medical Information Retrieval in Electronic Health Records related to Lung Cancer" with *Asan Medical Center*
- "Automatic translation of Affiliations and Author Names in Research Papers using Attention and Long-Short Term Memory" with *Yonsei College of Medicine*
- "Violent Language Detection through Unstructured Big Data Analysis"
- "Text-mining based Consumer Analysis on Foldable Phones focusing on Galaxy Fold"
- "Sentimental Analysis of Cyber Campus data, focused on Group assignment" with *Teaching and Learning Innovation Center, Yonsei University*
- "Recommendation System predicting Book Review Score based on Quartered Matrix Factorization"
- "A Curation System for Academic Papers using Paper2vec and BERT embeddings"

Big Data X Campus (2018 Summer school, supported by Government of South Korea)

- "Deep Learning-based Bloodless Disease prediction"
- "Improving Leisure/Culture via Shopping Complex Analysis"

Teaching Experience
- SQL (Structured Query Language) tutorial session (Special lecture, *Yonsei University*)
- Introduction to Database management theory (Special lecture, *Yonsei University*)
- Python tutorial on deep learning using Tensorflow, Keras (*Korea Industrial Technology Association*)

Publications

- **Classifying Impact Noise in Car Steering Gear using Mel-spectrogram based Convolutional-recurrent Neural Network.** Namu Park, Seok-Jun Bu, Sung-Bae Cho. *Korea Software Congress*, 2019.
- **Data Augmentation using Empirical Mode Decomposition on Neural Networks to Classify Impact Noise in Vehicle.** Gue-Hwan Nam, Seok-Jun Bu, Namu Park, Jae-Yong Seo, Hyeon-Cheol Jo, Won-Tae Jeong. *International Conference on Acoustics Speech and Signal Processing, 2020*.
- **A Monte Carlo Search-based Triplet Sampling Method for Learning Disentangled Representation of Impulsive Noise on Steering Gear.** Seok-Jun Bu, Namu Park, Gue-Hwan Nam, Jae-Yong Seo, Sung-Bae Cho. *International Conference on Acoustics Speech and Signal Processing*, 2020. (Virtual Presentation Speaker)

Skills and Certificates

Language
- English (Fluent), French (Fluent, DALF C2), Korean (Native)

Computing Skills
- Python programming (expert), C programming (intermediate), Java (intermediate)
- SQL (Structured Query Language) using MariaDB, Oracle SQL
- Big Data Analytics (Hadoop/Spark), Data Visualization
- Google Firebase, Android Studio, Django (Basic)

Certificates
- Samsung Convergence Software Course certificate
- Big Data X Campus certificate

Scholarship

- Yonsei Digital Analytics Teacher Assistant Scholarship (2019)
- Higher Education Innovation Team Social Innovation Activity Scholarship (2019)
- Samsung Convergence Software Course Scholarship – **Academic Excellence** (2018)
- Sogang Honors Scholarship - **Academic Excellence** (2017)
- Government Funding Scholarship (2016)
- Sogang SALANG Scholarship (2013, 2016, 2017, 2018)

Other Information

- Member of Sogang University Basketball Team
- Language Learning Course in Lyon Catholic University (France)
- Served as Tourist Police for 21 months (Military Service)
- Lived 2 years in Montreal, Canada (2004 – 2006), 2 years in Paris, France (1997-1999)