

Yunwon Tae

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Research Interest

- **Natural Language Processing (NLP)**
 - Natural Language Generation (NLG)
 - Machine Translation
 - Domain Adaptation
- **Meta Learning**
- **Time-Series**

Education

Korea University

M.S. IN COMPUTER SCIENCE AND ENGINEERING

Seoul, South Korea

Mar. 2019 - Present

University of California, Davis

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Davis, CA

Sep. 2014 - Dec. 2018

Publications

Y. Tae*, C. Park*, T. Kim, S. Yang, M. Khan, E. Park, T. QIN, J. Choo. "Meta-Learning for Low-Resource Unsupervised Neural Machine Translation," EMNLP 2020 Submitted, (*indicates equal contributions)

C. Park, C. Lee, H. Bahng, **Y. Tae**, K. Kim, S. Jin, S. Ko, J. Choo. "ST-GRAT: A Novel Spatio-temporal Graph Attention Networks for Accurately Forecasting Dynamically Changing Road Speed," ACM International Conference on Information and Knowledge Management (**CIKM'20**), 2020 (20.9% acceptance rate).

WORKING PAPER

S. Jin, C. Park, H. Lee, **Y. Tae**, J. Choo, S. Ko. "AttentionAnalyzer: A Visual Analytics System for Analyzing How A Deep Learning Model Predicts Traffic Congestion," (work in progress - TVCG 2020)

Research and Project Experience

Naver Papago

COLLABORATIVE RESEARCH PROJECT

- Analyzed post-editing data
- Researched regarding Automatic Post-Editing(APE) models

Seongnam, S.Korea

Apr. 2020 - Present

National Information Society Agency (NIA)

COLLABORATIVE RESEARCH PROJECT

- Traffic speed forecasting by using spatial-temporal graph modeling
- Researched regarding spatial-temporal graph models such as DCRNN and Graph-WaveNet
- Modified Graph-WaveNet model to consider the extra features, incident and weather

Seoul, S.Korea

Jun. 2019 - Dec. 2019

Naver Clova AI

GLOBAL RESEARCH INTERNSHIP

- Generating comments based on article titles
- The baseline model was DialogWAE which is originally used for conversation modeling
- Web demonstration using flask

Seongnam, S.Korea

Jun. 2018 - Sep. 2018

Teaching Experience

LG AI Camp - NLP

TEACHING ASSISTANT

- Instructing RNN language model, attention model, and BERT
- Demonstrating the various NLP libraries

Icheon, S.Korea

July. 2020

Samsung DS KAIST - NLP

TEACHING ASSISTANT

- Instructing RNN language model and attention model
- Leading project for English to Korean machine translation

Seoul, S.Korea

Oct. 2019

Samsung DS - NLP

TEACHING ASSISTANT

- Instructing Word2Vec, RNN language model, and attention model

Seoul, S.Korea

Sep. 2019

Skills

Programming languages expert with: Python(Pytorch), C, C++

Programming languages somewhat familiar with: Bash, Javascript, Swift

Framework somewhat familiar with: Angular, Node.js, Express, Socket.io, Flask

Projects

Drawback: Capstone Project with Google Software Engineer

UNDERGRADUATE PROJECT

- Users can share their drawing in real time
- https://edu.google.com/latest-news/stories/uc-davis-capstone/?modal_active=none

Davis, CA

Jan. 2018 - Jun. 2018

Hackathon by Devpost

HACKATHON PROJECT

- Using Google Cloud Vision API to detect foods and retrieve the nutrition information from a database
- <https://devpost.com/software/foodsnapper>

Davis, CA

Jan. 2018 - Jan. 2018

Clone: Warcraft II

UNDERGRADUATE PROJECT

- Porting existing linux application to IOS application
- Designed the UI to fit in iPhone Screen

Davis, CA

Sep. 2017 - Dec. 2017