

Haejin Cho

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EDUCATION

University of British Columbia Vancouver, BC
Master of Data Science - Computational Linguistics EXPECTED 07/2021
Relevant Coursework: NLP; Machine Learning; Deep Learning; Corpus Linguistics; Algorithms; Statistics

Yonsei University Seoul, South Korea
Bachelor of Arts - Korean Language and Literature GRADUATED 08/2019
GPA: 4.22/4.3; Highest Honours 2018, 2019;
Relevant Coursework: Syntax; Semantics; Phonology; Morphology; Corpus Linguistics

EXPERIENCE

SeaSalt.ai Vancouver, BC
Capstone member 05/2021 – 07/2021

- Capstone project as a part of the MDS-CL program

Advanced skills: To be added

Yonsei Institute of Language and Information Studies Seoul, South Korea
Research Associate 03/2016 – 09/2017

- Participated in publishing the 8th edition of Dong-a Yonsei's Elementary Korean Dictionary
- Analyzed vocabulary frequency used in elementary textbooks to select lexical items for the dictionary

Advanced skills: Lexicology, Corpus linguistics, MS excel

MKLCC(Montreal Korean Language & Culture Centre) Montreal, QC
Volunteer, organizer 02/2019 – 05/2019

- Organized language exchange workshops and helped people to learn Korean and explore Korean cultures
- Filmed and edited workshop videos and uploaded to FaceBook group

PERSONAL PROJECT

COVID-19 Vaccine Sentiment Analysis [\[Project Link\]](#) [\[GitHub\]](#) 12/2020-02/2021

- Achieved an accuracy of 78% with the best model among the trials of different machine learning models such as LGBM, Logistic Regression, XGBoost and deep learning architectures.
- Deployed an LSTM deep learning model to predict sentiments of COVID-19 vaccines related tweets using Heroku and Flask
- Scraped tweets using Tweepy API, manually annotated sentiments of tweets to perform a supervised learning task

Advanced skills: FNN, LSTM, PyTorch, Tweepy, Sentiment Analysis, Text Annotation, Flask, Heroku

ACADEMIC PROJECTS [MORE PROJECTS ON MY BLOG](#)

Building a Multilingual Parallel Corpus using TED transcripts 03/2021

- Scraped transcripts from TED talks to create a parallel multilingual corpus using BeautifulSoup
- Using spaCy, automatically extracted named entities in English, Chinese corpora and improved annotation quality by using Amazon Mechanical Turk
- Deployed the parallel corpora with an interface for users using HTML, JS, CSS, and FastAPI

Advanced skills: Web Scraping, Python, Corpus Linguistics, spaCy, NER, AMT, FastAPI, Docker, Git

Creating a POS tagger using HMM algorithm

01/2021

- Implemented a semi-supervised POS tagger from scratch using HMM and Viterbi algorithm, achieved 79 % accuracy
- Visualized the result statistics with a bar chart using Altair

Advanced skills: Semi-supervised Learning, HMM, Viterbi, Python, POS tagging

ADDITIONAL INFORMATION

- **Technical Skills:** Python, Git, R, PyTorch, Pandas, Altair, nltk, spaCy, MS Excel
- **Languages:** Fluent in Korean, English; Conversational Proficiency in Japanese; Elementary Proficiency in French
- **Extra Accredited Courses:** Linear Algebra, Introduction to Calculus at Athabasca University
- **Online Courses and Certificates:** Japanese Language Proficiency Test N1