

SEUNGMIN CHOU

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EDUCATION

Stony Brook University

New York, United States of America

Applied Statistics (Dual Major: AI), Bachelor of Applied Statistics, 4.19 / 4.5, 96.9 (100-Point Scale)

March 2019 – Present

Chung-Ang University Seoul, Republic of Korea Applied Statistics (Dual Major: AI), Bachelor of Applied Statistics, 4.19 / 4.5, 96.9 (100-Point Scale) March 2019 – Present

Selected Coursework:

- **Statistics** : Data Mining, Bayesian Statistics, Mathematical Statistics, Regression Analysis, Multivariate Statistics
- **Mathematics** : Advanced Calculus (*i.e.* Real Analysis), Topology (I), Calculus, Linear Algebra, Discrete Mathematics
- **Computer Science** : Data Structure, Algorithms, Deep Learning for Image Data Analysis, Deep Learning For AI

PUBLICATION (* FOR EQUAL CONTRIBUTION)

- **Seungmin Chou**, Kyusung Choi, Inpyung Hwang, Classifying the Hematoma expansion from MR-table multi-modal data of acute intracranial hemorrhage (ICH) patients for fast-paced prognosis prediction and genotypical inference. *Co-affiliated at KIST & SNUH*
- Gwangmin Choi, **Seungmin Chou**, Yunam Cheong, ‘Error Analysis in Artificial Intelligence Hate Speech Classification’, Journal of AI Humanities (JAIH), 13, 109-147. February. 2023

EXPERIENCE

Korea Institute of Science and Technology (KIST) *co-affiliated at Seoul National University Hospital (SNUH)* Seoul, Republic of Korea

Researcher (Co-advised by: Prof. Kyusung Choi, Doctor. Kwanghyun Rhyu)

February 2024 – Present

- Developing Three-Dimensional Vision Transformer model for survival analysis with proportional-hazards assumption solely from magnetic resonance images, and identifying the genotypical features through the phenotypical information from the latent features.
- Predicting Hematoma Expansion through three-dimensional Vision Transformer using heterogeneous information identified by central and borderline of tumors at computerized tomography images

AI stat Lab

Seoul, Republic of Korea

Researcher (Research Supervisor: Prof. Changwon Lim)

March 2023 – January 2024

- Designed an end-to-end nodule segmentation model utilizing CT image with self-supervised learning methods, referencing NoduleNet, Models Genesis, CBAM, QAM, etc.
- Contributed to designing an end-to-end framework adapting nnU-Net to segment glioma tumors with Brain Tumor Segmentation (BraTS) data.
- Navigated a DCASE challenge ‘Task 6’ to build an Automated Audio Captioning (AAC) model utilizing an encoder-decoder shape model with PaSST, PANNs, and Transformer decoder BART.
- Oversaw undergraduate researchers in predicting surface temperature with tabular data for the Korea Meteorological Administration’s Big Data Festival.

Astara Move

Madrid, Spain

Data Analytics Internship from International Talent Program (ITP) (Fully conducted in English)

February 2023 – March 2023

- Analyzed 10,000+ clients (2022-23) to bring business insight: the correlation is not significant between the (financial) creditability of car-rental customers and the possibility of runaway after incidents. Composed Random Forest classification model alternatively.

AI Humanities Lab (AIH), Humanities Research Institute HK+ AI Humanities (HRI)

Seoul, Republic of Korea

Researcher (Research Supervisor: Prof. Yunam, Cheong)

October 2022 – February 2023

- Conducted research on “Error Analysis in Artificial Intelligence Hate Speech Classification”, classifying misclassified data from Smilegate AI with the Unsmile Dataset into four different criteria of morphology, semantics, pragmatics, and erroneous labels.

SCHOLARSHIP & AWARDS

- Academic scholarship received three times for excellence in undergraduate courses. *June, December 2021, June 2023.*
- Awarded 2nd place at the 6th College Student Academic Research Paper Competition at Humanities Research Institute (HRI) with the topic ‘Error Analysis of a Hate Speech Classifier’. *February 2023*
- Awarded at 2021 Business & Economics 2nd student academic conference in Chung Ang University, College of Business & Economics, with the topic ‘AI Chatbot and Chung-Ang University’s Charlie’. *June 2021*

SKILLS

Programming Languages: Python (advanced; including frameworks such as PyTorch, TensorFlow, Pandas, NumPy, Matplotlib, MONAI, TorchIO, TorchVision, DDP), R (advanced), L^AT_EX(advanced), C/C++ (intermediate), SAS, SPSS (basic)

Operating Systems and Tools: Linux (advanced), Docker (intermediate)

Native Languages: Korean (native), English (full professional proficiency)