

# Swanie Juhng

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swaniejuhng.github.io

## EDUCATION

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**Stony Brook, NY** **Stony Brook University** **Aug 2020 – Expected May 2025**

- Ph.D. Candidate in Computer Science. Research Area: NLP, Computational Psychology. CGPA: 3.87/4.0

**Seoul, Korea** **Sogang University** **Mar 2015 – Feb 2020**

- B.S. in Business Administration and Computer Science. CGPA: 3.34/4.0

## PUBLICATIONS

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**Discourse-Level Representations can Improve Prediction of Degree of Anxiety.** ACL 2023.

**Transfer and Active Learning for Dissonance Detection: Addressing the Rare-Class Challenge.** ACL 2023, Outstanding Paper.

## EMPLOYMENT AND EXPERIENCE

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**Research Assistant** **Stony Brook University** **May 2021 – Ongoing**

- Conducting an explanatory study using unsupervised learning techniques on time series diagnostic data to identify subgroups with different longitudinal patterns or sequences of disorder.
- Built generative language models that produce texts conditioned on Big Five personality traits and mental health variables; in the process of writing manuscript.

**IITP-Purdue Software Program** **Purdue University** **Jun 2018 – Aug 2018**

- Was selected as the participant of a 7-week summer software program and funded by IITP (South Korea government institution).

## PROJECTS

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**Gender and Mental Health.** Big Data Analytics, 2022.

- Used language-based mental health prediction models on the County Tweet Lexical Bank dataset to find the correlations between mental health, gender, and population density.

**World Happiness & Alcohol Consumption.** Visualization, 2021.

- Built an interactive dashboard that visualizes correlation between variables with respect to happiness and alcohol consumption.

**Document-Level Sentiment Analysis.** Natural Language Processing, 2020.

- Explored several methods built on the DistilBERT-based classifier to predict an author's sentiment towards a main entity in an article.

**Waggle Power Management System.** IITP-Purdue, 2018.

- Constructed an autonomous power management system using socket programming and Raspberry Pi to enable Waggle (wireless sensor platform) survive in rural environments.

## KEY SKILLS

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**Languages** Python; C/C++; Java; JavaScript; Shell; L<sup>A</sup>T<sub>E</sub>X

**Tools** PyTorch; TensorFlow; MySQL; Hadoop; Spark; D3.js

## EXTRACURRICULAR ACTIVITIES

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**President** **Korean Graduate Student Assn** **May 2022 – Ongoing**

- Organized events and managed social media account to foster interaction between students.
- Provided help to incoming Korean students settling down in a new environment.