# Swanie Juhng

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swaniejuhng.github.io

## EDUCATION

**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

**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 Award.

## EMPLOYMENT AND EXPERIENCE

**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

**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 & Alochol 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

**Languages** Python; C/C++; Java; JavaScript; Shell; LaTeX
**Tools** PyTorch; TensorFlow; MySQL; Hadoop; Spark; D3.js

## EXTRACURRICULAR ACTIVITIES

**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.