

# Shan Chen

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## EDUCATION

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- Brandeis University**, Waltham, Massachusetts **Expected: May 2022**  
Master of Science, Computational Linguistics (STEM Designated, NLP + Data Science + Linguistics)
- St. Olaf College**, Northfield, Minnesota May 2020  
Bachelor of Arts, Mathematics, Japanese, Linguistics Concentration Majors/Overall GPA: 3.7/4.0
- Honors/Awards: Cum Laude with distinctions, Japanese National Honor Society, Pi Mu Epsilon, JASSO Scholarship, National Japanese Exam Silver Prize, Henry Luce Research Grant
  - Semester abroad: Nagoya University School of Engineering, Nagoya, Japan

## RELATED COURSES

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Algorithms & Data Structures, Applied Algorithms, Graph Theory, Neural Computation, Natural Language Annotation for Machine Learning, Object-Oriented Software Design(C++&Java), Information Retrieval, Statistical Machine Learning, Natural Language Processing, Syntactic Theory, Semantics, Phonetics

## LANGUAGES AND FRAMEWORKS

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Python, C++, Java, R Studio, Flutter, Firebase, Flask, HTML & CSS, NoSQL, Pytorch  
Chinese (Native), English (Native), Japanese (Professional working proficiency), German (Elementary)

## WORK EXPERIENCE

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- Data Scientist Intern**, [Elphi](#), Cambridge, Massachusetts Dec 2020 – Feb 2021
- Working on Real-time Dynamic data with Tableau and Machine learning loan prediction algorithms.
  - Integrated the algorithm into the main app using GCP Pipeline to achieve systematic automation.
- Software Developer**, [Unismart](#)・ユニスマ, Tokyo, Japan June 2020 – Sept 2020
- Developed a cross-platform app using Flutter and Firebase framework designed to help to connect 10k+ university students during the COVID-19 pandemic.
  - Support real-time push notification, messaging, coursemate matching system using Firebase API.
  - Designed customer analytics functions to assess customer acquisition and app engagement gaining over 91 percent positive feedback.
- Linguistics Research Assistant**, St. Olaf College, Minnesota June 2018 – July 2019
- Conducted data analysis and synthesized data into a published paper (publication listed below).  
The Paper was published as a linguistics book chapter in 2019 by Lexington Press as:  
*"The Development of Willingness to Communicate in L2 Chinese Writing"*.
  - Generated and analyzed Japanese web sourced linguistics data for Ito, Ph.D.'s linguistics research.

## PROJECTS

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- Washington Post Information Retrieval System** Oct 2020 – Present
- Web app retrieving information from Washington post corpus with boolean and vector space search.
  - Leveraged frameworks: Flask + Python front & backend implantations.
- Computational Sociolinguistic Analysis of Cross-cultural Celebrity Emoji Usage** March 2019 – Present
- Created machine learning models with neural networks, SVM, KNN, and random forests to predict emoji usage based on tweets' sentiment scores, implementing LSTM model summarizing the tweets.
  - Analyzed celebrities' emoji use across cultures and compared the result to common users.
  - Proven differences among usages, developing a classifier to predict tweet goals through emojis.
- Exploration of League of Legends Professional Winning Strategies** May 2020 – June 2020
- Using 10 different statistical machine learning models including, Bagging, Penalized Regression, SVM, Random Forests, and Ada Boosting, predicting win rate. Got 82% (improved by 9%) accuracy rate with the voting system among these models as results explained pro-players' scientific playing styles.