

# KINAN MARTIN

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## EDUCATION

**Massachusetts Institute of Technology** **Graduation: May 2024**  
Master of Engineering in Computer Science and Cognition GPA: 4.9 / 5.0

**Massachusetts Institute of Technology** **Graduation: May 2023**  
Bachelor of Science in Engineering in Computer Science and Cognition GPA: 4.9 / 5.0

*Relevant coursework:* Natural Language Processing · Computer Vision (G) · Large Language Models · Artificial Intelligence · Deep Learning (G) · Spoken Language Processing (G) · Computational Cognitive Science (G) · Machine Learning · Laboratory in Psycholinguistics · Data Structures and Algorithms · Programming · Projects in the Science of Intelligence · Discrete Math · Linear Algebra · Probability and Random Variables

## EXPERIENCE

**Foxconn** **June 2023 – August 2023**  
*Artificial Intelligence Research Intern* Taipei, Taiwan

- Spearheaded project on AI driving assistant with multimodal vision-language models and LLMs
- Designed and implemented novel model architecture and dataset generation pipeline
- Jointly devised and submitted patents for the above (US and Taiwanese patents pending)
- Collaborated with Academia Sinica students to create related video demo for Hon Hai Tech Day 2023

**MIT Computational Psycholinguistics Lab** **September 2022 – present**  
*Student Researcher* Cambridge, MA

- Designed and implemented novel probing paradigm for self-supervised spoken language models
- Used Facebook AI's *fairseq* to quantify how models incl. HuBERT exhibit human-like processing behavior
- Wrote [first-author paper](#) accepted to int'l spoken language processing conference [INTERSPEECH 2023](#)

**MIT** **September 2022 – present**  
*Teaching Assistant (6.101 Fundamentals of Programming)* Cambridge, MA

- Taught 600+ students by helping solve/debug assignments and fostered good coding practices in weekly labs
- Led weekly staff meetings and taught 30+ fellow lab assistant staff best practices in helping students
- Jointly created and tested problem sets and maintained class server front-end and back-end

**University of Chile** **June 2022 – August 2022**  
*Student Researcher* Santiago, Chile

- Co-authored [paper](#) on training word embeddings for Spanish clinical use published in int'l journal *Frontiers*.
- Implemented NLP models for int'l computational linguistics competition ([SMM4H 2022: SocialDISNER](#)): scored 2<sup>nd</sup> place on eval metric. Co-authored corresponding [paper](#) published by *ACL*.

## SELECTED PROJECTS

**Arabic part of speech marking extension ([na7w](#))** **January 2024**

Created Chrome extension to mark parts of speech of Arabic text on webpages

**Problem solving with Large Language Models via context augmentation** **April 2023**

Devised and implemented a set of LLM context augmentation methods to improve performance at problem solving

**Speech to speech translation model** **May 2022**

Built novel speech to speech translation pipeline, wrote corresponding paper describing methodology

**Querying neural representations of language with EEG data** **November 2021**

Used novel EEG dataset from child epilepsy patients to investigate neural responses to linguistic features

**Grapheme to phoneme RNN model** **May 2021**

Built Pytorch LSTM models to predict the pronunciation of novel words given their spellings for arbitrary languages

## SKILLS AND ACHIEVEMENTS

**Foreign Languages** Japanese, French, Russian, Arabic, Spanish, Chinese; learning Korean, Vietnamese, and more

**Coding Languages** Python, \*nix/Bash, MATLAB, R, JavaScript, HTML/CSS, LaTeX

**Software & Tools** git, pytorch, numpy, pandas, SQL, sklearn, Colab, slurm, NLTK, Stanza, GCP, Praat, MTurk

- Passed highest level of the international Japanese Language Proficiency Test (JLPT N1) in the 96<sup>th</sup> percentile (2017).
- Ron Brown Scholarship Scholar (2019-2023)
- First Place in Russian Poetry Recitation, Second Place in Speech Contest at New England Olympiads of Spoken Russian at Harvard University (2020).