

# KINAN MARTIN

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## EDUCATION

### Massachusetts Institute of Technology

Master of Engineering in Computer Science and Cognition

Bachelor of Science in Computer Science and Cognition

September 2019 – May 2024

GPA: 4.8 / 5.0

GPA: 4.9 / 5.0

## EXPERIENCE

### Reazon Holdings

Artificial Intelligence Researcher

June 2024 – present

Tokyo, Japan

- Leading team of four employees/interns to advance research and development of NLP solutions in products
- Coordinated release of [ReazonSpeech-k2-v2](#), leading open-source Japanese automatic speech recognition model
- Implemented OpenVLA (vision-language-action) model using [ROS 2.0](#) and [Crane X7](#) robotic arm
- Heading development of LangFit, a React app providing real-time translation/annotation of EN and JP speech

### Foxconn

Artificial Intelligence Researcher

June 2023 – August 2023

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 US and Taiwanese patents for the above

### MIT Computational Psycholinguistics Lab

Student Researcher

September 2022 – May 2024

Cambridge, MA

- Completed master's thesis on the relationship between contextual predictability and phonetic reduction
- 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

Teaching Assistant (6.101 Fundamentals of Programming)

September 2022 – May 2024

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 for helping students

### University of Chile

Student Researcher

June 2022 – August 2022

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 browser extension ([na7w](#))

January 2024

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

### 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

### 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, Chinese, Arabic, Spanish; learning Korean, Vietnamese, Polish, and more

### Coding Languages

Python, \*nix/Bash, MATLAB, R, React, HTML/CSS, JS, TypeScript, LaTeX

### Software & Tools

git, pytorch, numpy, pandas, SQL, sklearn, slurm, NLTK, Stanza, GCP, Praat, ROS

- Passed the 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 Olympiada of Spoken Russian at Harvard University (2020).