

# Akio Hayakawa

PHD STUDENT IN UNIVERSITAT POMPEU FABRA, BARCELONA, SPAIN

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## Short Introduction

- PhD student in Universitat Pompeu Fabra, Spain.
- Keen on the evaluation of natural language generation tasks, especially text simplification.
- With Master's degree in Education, also interested in the application of NLP for education.
- Currently seeking an internship position starting from 2025 (in Remote/Europe/East Asia/US).

## Education

### Universitat Pompeu Fabra

Barcelona, Spain

PhD Student in Computer Science

Oct 2023 -

- Engaged in Text Simplification
- Supervised by Prof. Horacio Saggion
- Working with Predoctoral Research Contract

### Nara Institute of Science and Technology

Nara, Japan

PhD Student in Engineering (Withdrawal)

Apr 2023 - Sep 2023

- Engaged in Text Simplification, Question Generation
- Supervised by Prof. Taro Watanabe
- Also worked as a Research Assistant

### Nara Institute of Science and Technology

Nara, Japan

Master's degree in Engineering

Apr 2021 - Mar 2023

- Engaged in Text Simplification, including the creation of dataset and the exploration of suitable evaluation metrics
- Supervised by Prof. Taro Watanabe
- Thesis Title: Towards Personalized Text Simplification
- GPA: 3.69 / 4.00

### University of Tokyo

Tokyo, Japan

Master's degree in Education

Apr 2015 - Mar 2017

- Interested in Vocational Education and Equity in Education
- Supervised by Assoc Prof. Yusuke Murakami
- Thesis Title: 『専修学校制度の成立過程』 (Translated from Japanese: Process of Establishment of the Specialized Training College System)

### University of Tokyo

Tokyo, Japan

Bachelor's degree in Education

Apr 2011 - Mar 2015

- Supervised by Assoc Prof. Yusuke Murakami
- Thesis Title: 『高等専門学校の社会的役割とその変遷』 (Translated from Japanese: Social Function and Its Transition of Colleges of Technology in Japan)
- **Courses:** Education-related courses and also STEM courses including linear algebra, calculus, statistics, and algorithms

## Publications

[5] **Akio Hayakawa** and Horacio Saggion. 2024. *Can LLMs Solve Reading Comprehension Tests as Second Language Learners?*. KiL 2024.

[4] Matthew Shardlow, Fernando Alva-Manchego, Riza Theresa Batista-Navarro, Stefan Bott, Saul Calderon Ramirez, Rémi Cardon, Thomas François, **Akio Hayakawa**, Andrea Horbach, Anna Huelsing, Yusuke Ide, Joseph Marvin Imperial, Adam Nohejl, Kai North, Laura Occhipinti, Nelson Pérez Rojas, Nishat Raihan, Tharindu Ranasinghe, Martin Solis Salazar, Marcos Zampieri, Horacio Saggion. 2024. *The BEA 2024 Shared Task on the Multilingual Lexical Simplification Pipeline*. BEA 2024.

[3] Matthew Shardlow, Fernando Alva-Manchego, Riza Theresa Batista-Navarro, Stefan Bott, Saul Calderon Ramirez, Rémi Cardon, Thomas François, **Akio Hayakawa**, Andrea Horbach, Anna Huelsing, Yusuke Ide, Joseph Marvin Imperial, Adam Nohejl, Kai North, Laura Occhipinti, Nelson Pérez Rojas, Nishat Raihan, Tharindu Ranasinghe, Martin Solis Salazar, Marcos Zampieri, Horacio Saggion. 2024. *An Extensible Massively Multilingual Lexical Simplification Pipeline Dataset using the MultiLS Framework*. READ1 2024.

[2] **Akio Hayakawa**, Tomoyuki Kajiwara, Hiroki Ouchi, Taro Watanabe. 2022. *JADES: New Text Simplification Dataset in Japanese Targeted at Non-Native Speakers*. TSAR-2022.

[1] 早川明男, 大内啓樹, 梶原智之, 渡辺太郎 (**Akio Hayakawa**, Hiroki Ouchi, Tomoyuki Kajiwara, Taro Watanabe). 2022. 『テキスト平易化における自動評価指標のメタ評価の検討』 (In Japanese, Translated Title) *A Study of Meta-Evaluation of Automatic Evaluation Metrics in Text Simplification*. NLP 2022.

## Work Experience

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### Universitat Pompeu Fabra

Pre-Doctoral Researcher

Barcelona, Spain

Dec 2023 -

### Nara Institute of Science and Technology

Research Assistant

Nara, Japan

Apr 2023 - Sep 2023

### Freelance

Machine Learning Engineer

Nara, Japan

Feb 2021 - Aug 2023

### BrainPad Inc.

Software Engineer, Machine Learning Engineer

Tokyo, Japan

Jan 2019 - Jan 2021

### Subsidiary of NTT Data

Software Engineer

Tokyo, Japan

Apr 2017 - Dec 2018

## Skills

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**Programming** Python (Numpy, Pandas, PyTorch, Keras, Scikit-learn, Gensim, Flask. etc.), Java, C, HTML/CSS, JavaScript, SQL.

**Miscellaneous** Linux, Shell, GCP (BigQuery, API Gateway. etc.), AWS(SageMaker, Lambda. etc.), LaTeX, Tableau, Git.

**Soft Skills** Leadership, Time Management, Teamwork, Problem-solving, Documentation, Presentation.

## Achievements

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Jun 2020 AWS Certified Solutions Architect - Associate

Global

Jun 2019 Google Cloud Certified Professional Data Engineer (*Expired*)

Global

Dec 2018 Kaggle Competition Master

Global

Apr 2018 Applied Information Technology Engineer

Japan

Mar 2018 LPIC - Certified Level 1

Global

## Languages

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**English** Fluent

**Japanese** Native

**Spanish** Basic