

Emi Yuda, D.Eng., Ph.D

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SUMMARY

My professional experience includes research and education, research management, and starting a start-up company. My research theme is the construction of indices for evaluating human biological states, using analyze ECG and pulse wave data as well as researching biological big data.

KEY SKILLS

- Communication (Level: Intermediate)
- Management skills (Level: Intermediate)
- Computer skills (Level: Intermediate)

LANGUAGES & QUALIFICATIONS

- Native Language: Japanese (Native)
- Other: English (Daily conversation level)

PROFESSIONAL EXPERIENCE

Tohoku University | Miyagi, Japan

Employment Period [5/2019-present]

Assistant Professor

- *Unprecedented-scale Data Analytics Center (1/2022-present)*
- *Institute of Development, Aging and Cancer (4/2021-present)*
- *Center for Data-driven Science and Artificial Intelligence (12/2020-present)*
- *Graduate School of Information Sciences [concurrent position] (12/2020-present)*
- *Graduate School of Engineering, Department of Electrical Engineering (5/2019-12/2020)*
- *Faculty of Engineering Department of Information and Physics Engineering [concurrent position] (5/2019-12/2020)*

Academic Researchers

- *Graduate School of Engineering, Department of Electrical Engineering (4/2019-4/2019)*

Nagoya City University | Aichi, Japan

Employment Period [6/2015 – 4/2019]

Researcher, NEDO Project

Graduate School of Medical sciences

Santa Monica College | California, USA

Employment Period [4/2013 – 10/2014]

Research Assistant

Department of Computer Science

EDUCATION

Niigata University | Niigata, Japan

Doctor of Engineering (Engineering)

3/2020 (doctoral degree by thesis only)

Nihon University | Tokyo, Japan

PhD (Information Science)

3/2019

Tsukuba University | Tsukuba, Japan

Master (Intellectual Property)

3/2012

[ADDITIONAL INFORMATION]

I am one researcher specializing in bio-signal processing and big data analysis. I have focused on business informatics till 2014. In 2015, moved to the Graduate School of Medical sciences, where I started my research on Bio-signal big data analysis, Biological measurement using bio-signal processing. In 2019, I will move to a laboratory in the School of Engineering, where I will be working on the integration of indicators into devices. In 2020, I will move to the Graduate School of Information Science, where I will be involved in AI and machine learning based bio-signal processing and its educational activities. My Google schola H-index is 13 and i10-index is 17(as of Dec 2022).

My major publications can be found here: <https://www.researchgate.net/profile/Emi-Yuda>

Recently, I published an algorithm to screen for sleep apnea (SAS) from pulse waves (Hayano J, Yuda E et al. PLOS ONE, 2020). My main research topic is the estimation of the human state using bio-signal processing, from the detection of sleepiness/drowsiness in drivers, screening of heart and cardiovascular diseases, generation mechanism of biological fluctuations, and the effects of light on organism.

As for academic activities, I am a member of the Institute of Electrical Engineers International (IEEE), Information Processing Society of Japan (IPSJ), Society of Automotive Engineers of Japan (JSAE), etc. I am also a senior member/senior engineer of IEEE, IPSJ and JSAE, and a member of IEEE Women in Engineering, which is working to increase the number of female students in the field of technology.