SHU SAKAMOTO

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5322, Fujisawa-shi Kanagawa-Ken, Japan Web: mosh-shu.com

September 2018

Research Keywords: Neuroscience, Music, Emotion, Predictive Coding, EEG, Neural Oscillation, Neural Decoding, Brain-Computer Interface

EDUCATION

2017 – Present **Keio University**, Undergraduate

Bachelor's-Master's Four-Year Integrated Education Program

Research Topic: Neuroscience and Music

Research Supervisor: Dr. Shinya Fujii, Dr. Atsuhi Aoyama

GPA: 3.82

WORK EXPERIENCES

2018/02 – Present **Research Intern**

NTT Communication Science Laboratories. Supervised by Dr. Makio Kashino.

2019/02 – 2019/07 **Engineer**

Probspace Inc.

2018/12 – 2019/04 **Neuro-Engineer**

Sandbox Inc.

2017/07 – 2017/09 **Translator**

Freelance

HONORS AND AWARDS

2019 **Student Paper Award (3rd Prize)**

2019 IEEE 1st Global Conference on Life Sciences and Technologies

2018 **Abe Research Award for Young Researchers** (Nominated)

The 57th Annual Conference of Japanese Society for Medical and Biological

Engineering

PUBLICATIONS

Sakamoto, S., Kobayashi, A., Matsushita, K., Shimizu, R., & Aoyama, A, "Decoding Relative Pitch Imagery Using Functional Connectivity: An Electroencephalographic Study", in *Proceedings of 2019 IEEE 1st Global Conference on Life Sciences and Technologies (LifeTech)*, vol. 1, 2019, pp. 48-49.

CONFERENCE PRESENTATIONS

TALKS

- **Sakamoto, S.,** Kobayashi, A., Matsushita, K., Shimizu, R., & Aoyama, A. (2019). Decoding Relative Pitch Imagery Using Functional Connectivity: An Electroencephalographic Study. Talk presented at the 2019 IEEE 1st Global Conference on Life Sciences and Technologies. Osaka, Japan
- Watanabe, N., **Sakamoto**, **S.**, & Aoyama, Atsushi. (2018). *Ketsugouon ni Chakumoku Shita Waon ni Kannsuru Noujouhoushori no Kentou* [Investigating Neural Processing of Chords Focusing on Combination Tones]. Talk presented at the 21st Application of Multimodal Neural Information Symposium in Japanese Society of Medical and Biological Engineering. Yokohama, Japan

POSTERS

- **Sakamoto, S.,** Kobayashi, A., Matsushita, K., Shimizu, R., & Aoyama, A. (2019). Classification of Electroencephalogram during Pitch Imagery based on Relative Pitch Change. Poster presented at *The 58th Annual Conference of Japanese Society for Medical and Biological Engineering*. Okinawa, Japan.
- **Sakamoto, S.,** Matsushita, K., Kobayashi, A., Shimizu, R., & Aoyama, A. (2018). Classification of EEG data during imagery of higher and lower pitched sounds. Poster presented at *The 41st Annual Meeting of the Japan Neuroscience Society*. Kobe, Japan.
- Kobayashi, A., **Sakamoto, S.,** Matsushita, K., Shimizu, R., & Aoyama, A. (2018). Classification of EEG data during imaging higher and lower pitched sounds using machine learning. Poster Presented at *The 57th Annual Conference of Japanese Society for Medical and Biological Engineering*. Sapporo, Japan. (Presenter)

GRANTS

- **Research Grant.** Incentive to Study and Conduct Research Through SFC Education Promotion Foundation. 2019. (210,000 JPY)
- **Research Grant.** Incentive to Study and Conduct Research Through SFC Education Promotion Foundation. 2018. (160,000 JPY)

Research Grant. Keio SFC Academic Society. 2018. (14,300 JPY)

TEACHING EXPERIENCE	
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INSTRUCTOR OF RECORD

Summer 2017- **Private Tutor of High School Math**

TEACHING ASSISTANTSHIPS

Spring&Fall 2018 Calculus, Keio University

SKIILS _____

LANGUAGE

Japanese Native English Fluent.

TOEFL iBT 105. TOEIC 990, EIKEN Grade1. Graduated from Phillips Academy,

a boarding school in Massachusetts

COURSEWORK

Experimental neuroscience, cognitive neuroscience, machine learning, signal processing, musicology

PROGRAMMING

Proficient Python, Matlab, Git/GitHub, LaTeX, UNIX

Basic C, R, Mathematica, Haskell, HTML, Javascript, CSS

TRAINING EXPERIENCE

2017/09 – 2018/07 **Brain Science Training Program**

RIKEN Center for Brain Science

2018/02 - 2018/04 **NICO2AI School**

Dwango AI Lab.