

SHU SAKAMOTO

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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. Atsuhiko 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**
Proospace 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

INSTRUCTOR OF RECORD

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

TEACHING ASSISTANTSHIPS

Spring&Fall 2018 **Calculus**, Keio University

SKILLS

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.