



# Hidekazu Nagamura

PHD STUDENT AT DOSHISHA UNIVERSITY

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## Summary

I am a PhD student at Doshisha University, supervised by Prof. Dr. Kohta I. Kobayasi. My research focuses on exploring the functional and phenomenological dimensions of the “self”. This exploration involves studying metacognition and the sensation of self-voice, employing a range of methods including psychological, physiological, and neural measurements. Additionally, I have a keen interest in addressing reproducibility issues, aiming to validate and refine these measurement methodologies.

**KEYWORDS:** Cognitive Neuroscience, Sense of Self, Voice Perception, Metacognition, Statistical Modeling, Reproducibility

## Education

### Graduate School of Life and Medical Sciences (Doctoral Course), Doshisha University

Kyoto, Japan

PHD IN ENGINEERING

Apr. 2022 - present

- Supervisor: Prof. Dr. Kohta I. Kobayasi

### Master of Science in Engineering

Kyoto, Japan

GRADUATE SCHOOL OF LIFE AND MEDICAL SCIENCES (MASTER COURSE), DOSHISHA UNIVERSITY

Apr. 2020 - Mar. 2022

- Supervisor: Prof. Dr. Kohta I. Kobayasi

### Bachelor of Engineering

Kyoto, Japan

FACULTY OF LIFE AND MEDICAL SCIENCES, DOSHISHA UNIVERSITY

Apr. 2016 - Mar. 2020

- Supervisor: Assoc. Prof. Dr. Kohta I. Kobayasi

## Teaching Experience

### Learning Assistant

DOSHISHA UNIVERSITY

May. 2022 - Mar. 2025

- Provide advice and consultation to undergraduates on out-of-class learning based on the expertise.

### Teaching Assistant

DOSHISHA UNIVERSITY

Apr. 2020 - Aug. 2022

- Medical Information Laboratory, Sensory Information Systems, Bachelor Thesis

### Supervision of Thesis Research

DOSHISHA UNIVERSITY

Apr. 2020 - present

- Supervision of 5 Master Students and 8 Bachelor Students

## Industry Experience

### Freelance Researcher

Online

SANDBOX INC.

May. 2022 - Mar. 2023

- Built psychological experiment designs to evaluate customer product performance.

### Part-time Software Engineer

Kyoto, Japan

HACARUS INC.

Jul. 2019 - Mar. 2022

- Implemented in-house machine learning library in C++ for speed-up and use on hardware.

### Software Engineering Intern

Online

FUTURE CORPORATION

Aug. 2020 - Sep. 2020

- Developed web applications in Go, Vue.js.

### Software Engineering Intern

Osaka, Japan

CHARTWORK Co., LTD.

Aug. 2019 - Sep. 2019

- Implemented toy application in Scala with Scrum development and Domain Driven Design.

## Part-time Software Engineer

DONUTS Co. LTD.

- Developed a mobile game in PHP.

Kyoto, Japan

Jun. 2018 - Jul. 2019

## Skills

<b>Programming</b>	Python, MATLAB, R, Presentation (neurobs), C++, HTML/CSS, JavaScript, TypeScript, Bash, Go, Rust, LaTeX
<b>Tools</b>	PsychoPy, Psychtoolbox, Docker, Tidyverse, brms, PsyNet, Gorilla.sc, JAGS, fMRI, Physiological Measurement (Pupil Diameter, Electrodermal Activity)
<b>Languages</b>	Japanese, English

## Publications

### PUBLISHED

**Hidekazu Nagamura**, Hiroshi Onishi, Kohta I. Kobayasi, Shoko Yuki, “Implicit manifestation of prospective metacognition in betting choices enhances its efficiency compared to explicit expression,” *Frontiers in Human Neuroscience*, vol. 19, 2025

Miku Uenaka, **Hidekazu Nagamura**, Shizuko Hiryu, Kohta I. Kobayasi, Yuta Tamai, “Feasibility evaluation of transtympanic laser stimulation of the cochlea from the outer ear,” *Journal of the Acoustical Society of America*, vol. 152, pp. 1850-1855, 2022

### PROCEEDINGS

**Hidekazu Nagamura**, Hiroshi Ohnishi, Momoko Hishitani, Shota Murai, Yuma Osako, Kohta Kobayasi I, “Reward enhancement and inhibition in auditory decision-making,” *Proceedings of the AROB-ISBC-SWARM 2022*, pp. 1164-1168, January 2022.

### PREPRINTS

**Hidekazu Nagamura**, Hiroshi Onishi, Momoko Hishitani, Shota Murai, Yuma Osako, Kohta I. Kobayasi, “Reward priming differentially modulates enhancement and inhibition in auditory decision-making,” *bioRxiv*.  
(DOI: 10.1101/2021.12.23.473984)

## Fellowships & Grants

### Repayment Exemption for Students with Excellent Grades

JAPAN STUDENT SERVICES ORGANIZATION (JASSO) TYPE I (INTEREST-FREE) SCHOLARSHIP

2022

### Doshisha University Doctoral-Program Young Researcher Scholarship

DOSHISHA UNIVERSITY

Apr. 2022 - Mar. 2025

### Support Program for Pioneering Research Initiated by the Next Generation Researchers in Doshisha University Doctoral Course

DOSHISHA UNIVERSITY

Apr. 2022 - Mar. 2025

### Expenses for the promotion of pioneering and interdisciplinary research (competitive funds)

DOSHISHA UNIVERSITY

2022

## Presentations (International Conference)

**Hidekazu Nagamura**, Seita Tomioka, Kohta I. Kobayasi, “Unraveling the Paradox of Self-Voice Emotion: A Comparative Analysis”, ARO 48th Annual MidWinter Meeting, Feb. 2025 (Poster)

**Hidekazu Nagamura**, Hiroshi Ohnishi, Kohta I. Kobayasi, and Shoko Yuki, “When prospective metacognition works better: Bet tells more than confidence rating”, The 27th annual meeting of the Association for the Scientific Study of Consciousness (ASSC27), Jul. 2024 (Oral)

**Hidekazu Nagamura**, Seita Tomioka, Taichirou Tanaka, and Kohta I. Kobayasi, “The origin of the uncomfortable feeling in one’s own recorded voice”, Interdisciplinary College 2024 (IK2024), Mar. 2024 (Poster)

**Hidekazu Nagamura**, Seita Tomioka, Taichirou Tanaka, and Kohta I. Kobayasi, “Why Your Voice Sounds Strange: Contribution of Acoustic Factors and Word Familiarity”, XXVII International Bioacoustics Congress (IBAC), Oct. 2023 (Poster)

Shota A. Murai, **Hidekazu Nagamura**, Kohta I. Kobayasi, Hiroshi Riquimaroux, “Speech motor representation in improving the perception of spectrally degraded speech”, *Neuroscience 2022*, Nov. 2022 (Oral)

**Hidekazu Nagamura**, Hiroshi Onishi, Momoko Hishitani, Shota Murai, Yuma Osako, Kohta I. Kobayasi, “Reward enhancement and inhibition in auditory decision-making”, AROB-ISBC-SWARM 2022, Jan. 2022 (Oral, Online)

**Hidekazu Nagamura**, Erika Sakaue, Hiroshi Onishi, Momoko Hishitani, Shota Murai, Yuma Osako, Kohta I. Kobayasi, “Past reward biases decision process in auditory detection task”, Society for Neuroscience (SfN) Global Connectome: A Virtual Event, Jan. 2021 (Poster, Online)

Hiroshi Onishi, Rong Guan, **Hidekazu Nagamura**, Momoko Hishitani, Shota Murai, Kohta I. Kobayasi, “The emotional words temporally capture the spatial attention”, SfN Global Connectome: A Virtual Event, Jan. 2021 (Poster, Online)

Momoko Hishitani, Yuma Osako, Shota Murai, **Hidekazu Nagamura**, Hiroshi Onishi, Kohta I. Kobayasi, “Left inferior parietal cortex represents subjective stimulus visibility”, SfN Global Connectome: A Virtual Event, Jan. 2021 (Poster, Online)

## Professional Development

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### TRAINING EXPERIENCE

#### Spring School

INTERDISCIPLINARY COLLEGE

*Günne, Germany*

*Mar. 2024*

#### Autumn School for Computational Neuroscience

JAPANESE NEURAL NETWORK SOCIETY

*Chiba, Japan*

*Nov. 2023*

#### Summer School

JAPANESE COGNITIVE SCIENCE SOCIETY

*Kanagawa, Japan*

*Aug. 2023*

#### Brain Science Training Program

RIKEN CENTER FOR BRAIN SCIENCE

*Online*

*Sep. 2022 - Jul. 2023*

#### fMRI Training Workshop Camp

NATIONAL INSTITUTE OF PHYSIOLOGICAL SCIENCES

*Online*

*Aug. 2022*

## References

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### Prof. Dr. Kohta I. Kobayasi

University: Doshisha University

Institute: Department of Biomedical Information

Email: [kkobayas@mail.doshisha.ac.jp](mailto:kkobayas@mail.doshisha.ac.jp)

### Prof. Dr. Shizuko Hiryu

University: Doshisha University

Institute: Department of Biomedical Information

Email: [shiryu@mail.doshisha.ac.jp](mailto:shiryu@mail.doshisha.ac.jp)

### Assis. Prof. Dr. Shoko Yuki

University: The University of Tokyo

Institute: Graduate School of Arts and Sciences

Email: [syuki@g.ecc.u-tokyo.ac.jp](mailto:syuki@g.ecc.u-tokyo.ac.jp)