

# Ryo Segawa

PHD RESEARCHER

*Nationality: Japanese*

*Address: Kellnerweg 4, 37077, Göttingen, Germany*

*Current Affiliation: Deutsches Primatenzentrum GmbH Leibniz-Institut für Primatenforschung*

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<https://www.linkedin.com/in/ryo-segawa-791030153/> | 🐦 @BrainUploading

Academic interests: Neural en/decoding, Consciousness ⊂ Perception/Learning/Artificial intelligence

General interests: Investment/Playing & listening to music/Fashion/Drinking/Hot springs & sauna/Running/Sports/Outdoor activities/Travel

## Work Experience

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### PhD Researcher

at German Primate Centre (Deutsches Primatenzentrum: DPZ)  
Cognitive Neurology Group, Decision and Awareness Group, Cognitive  
Neuroscience Laboratory  
(<https://www.dpz.eu/en/unit/cognitive-neurosciences/about-us.html>)

*Germany*

*10/2021–Present*

### Assistant Technical Staff

at the Laboratory of Urban Intelligence Information Systems  
(<http://nexus-lab.tu.chiba-u.ac.jp/index-e.html>), Graduate School of Science and  
Engineering, Chiba University  
Description: supporting undergraduate student's research and work on my own  
research related to inverse reinforcement learning.

*Japan*

*04/2020–05/2020*

## Education

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### In2PrimateBrains Project

Assigned organisation: German Primate Centre (Deutsches Primatenzentrum: DPZ)  
Cognitive Neurology Group, Decision and Awareness Group, Cognitive  
Neuroscience Laboratory  
(<https://www.dpz.eu/en/unit/cognitive-neurosciences/about-us.html>)  
Secondments: Newcastle University (the UK) and Sapienza University of Rome  
(Italy)

Research theme: Probing the link between perceptual visibility and brain  
oscillations

*Germany*

PHD NEUROSCIENCE

*10/2021–Present*

- Advisor: Prof Melanie Wilke, Dr Igor Kagan, and Prof Stefan Treue

### University College London

Faculty of Brain Sciences, UCL Queen Square Institute of Neurology, Advanced  
Neuroimaging

*The United Kingdom*

MASTER OF SCIENCE

Grade: Distinction

Dissertation: 'Potential of the Amygdala as a Predictor of Relapse Risk in  
Depression: Relationship between Discontinuation of Antidepressant Medication  
and Functional Activity of the Amygdala'

*09/2020–09/2021*

- Supervisor: Dr Quentin Huys

## Chiba University

Faculty of Engineering, Department of Urban Environment Systems

Japan

BACHELOR OF ENGINEERING

GPA 3.85 out of 4.0 converted from letter grade

Thesis: 'Performance comparison of existing deep reinforcement learning algorithms for the autonomous braking task' (**Outstanding Thesis Award**)

04/2018–03/2020

- Supervisor: Prof Sachiyo Arai

## National Institute of Technology, Tomakomai College

Japan

RESEARCH STUDENT

Research Theme: 'The examination of the measuring method of unfrozen water by pulse NMR'

04/2017–09/2017

- Supervisor: Dr Tetsuya Tokoro

## National Institute of Technology, Tomakomai College

Department of Civil Engineering

Japan

ASSOCIATE DEGREE IN CIVIL ENGINEERING

The third-highest-ranked graduate

Thesis: 'The measurement of unfrozen water content in frozen soil by pulse NMR'

04/2012–03/2017

- Supervisor: Dr Tetsuya Tokoro

## Skills

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- Languages
  - Japanese: native
  - English: business level
- Neuroscience
  - Principle of: clinical imaging, neuroanatomy, imaging modalities (CT, MR, M/EEG, PET/SPECT, Ultrasound), pathology & diagnostic imaging, and depression
  - Practical skills of: fMRI (SPM, FSL, FreeSurfer), MRI (anatomy, VBM), (a bit of) MRS
- Artificial Intelligence: especially, (deep/inverse) reinforcement learning
- System engineering: operational research, linear/non-linear optimisation, control theory, machine learning algorithms
- Civil engineering
- Computer skills: Python, Matlab,  $\text{\LaTeX}$ , Linux, Windows, Mac, Microsoft Office, AutoCAD

## Certifications & Qualifications

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03/2017 Assistant surveyor (applicable within Japan)

09/2021 NHP-specific LAS course, accredited by the Federation of European Laboratory Animal Science Associations (FELASA)

## Awards & Grants

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03/2020 Outstanding Thesis Award, from the Department of Urban Environment Systems, Chiba University

10/2021–10/2024 The Marie Skłodowska-Curie Actions (MSCA), from The European Union

## Publications

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The American Journal of Psychiatry (in preparation for submission)

## Others

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09/2017–03/2018 Intensive General English, Lake School of English Oxford

06/2020–08/2020 12-week Pre-sessional Course, Centre for Languages & International Education, Institute of Education, University College London

01/2021–06/2021 Methods for Dummies (<https://www.fil.ion.ucl.ac.uk/mfd/>) - Presented about Voxel-Based Morphometry under the supervision of Prof John Ashburner

15/09/2021 Poster Presentations at UCL Institute of Mental Health International Conference (Title: Potential of the Amygdala as a Predictor of Relapse Risk in Depression)