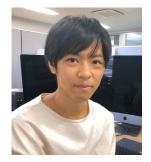**Name:** Yu Takagi

Affiliation:
Osaka University

URL: https://yu-takagi.github.io/
E-mail: takagi.yuu.fbs@osaka-u.ac.jp

Talk Title: Integrating Deep Generative Models with Human Brain Activity

Abstract:
Exploring the correspondence between brain activity and machine learning models is a unique approach that not only helps us understand how the brain represents the world, but also interpret how machine learning models and brain are related. In this presentation, I will introduce our recent research, which links different Generative AIs with human brain activity, in the domain of vision and audition. We will further discuss the development of the method for linking AI and the brain.

Biographical information:
Currently serving as an Assistant Professor at the Graduate School of Frontier Biosciences, Osaka University since 2021. I obtained my PhD from the Graduate School of Information Science at the Nara Institute of Science and Technology (NAIST) in 2018. My career includes roles such as a visiting researcher at the University of Oxford and a specially appointed researcher at the University of Tokyo from 2018 to 2020. From 2020 to 2021, I worked as a JSPS Overseas Research Fellow at Stanford University and a specially appointed researcher at the Graduate School of Humanities and Sociology, University of Tokyo. My research primarily focuses on the intersection of systems neuroscience and machine learning, aiming to contribute to develop novel insights for both fields.