Yuzuki Ishikawa

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Hard-working student with a passion for neuroscience and psychiatry. Experienced in molecular biology techniques, data analysis, data visualization, and machine learning through lab experiences.

Education

Kyoto Graduate University *Kyoto, Japan* *Expected Graduation : March 2025*

Department of Medical Sciences, Master's Program

Keio University *Kanagawa, Japan* *April 2019 - March 2023*

Department of Biosciences and Informatics, Bachelor's Degree Cumulative GPA: 3.21

University of Illinois at Urbana-Champaign *Champaign, IL, The United States* *August 2021 - May 2022*

College of Liberal Arts and Sciences, Exchange Student Cumulative GPA: 3.55

Research and Work Experience

Psychiatry Lab (Murai Lab) *April 2023 - Present*

Graduate Student *Kyoto, Japan*

Araya Inc. (Chikazoe Lab) *July 2022 - Present*

Research Internship Fellow *Tokyo, Japan*

Cognitive Neuroscience Lab (Jimura Lab) *April 2022 – March 2023*

Undergraduate Research Assistant *Kanagawa, Japan*

Neuroimmunology Lab (Inoue Lab) *September 2021 – May 2022*

Undergraduate Research Assistant *Champaign, IL, US*

Publications and Conference Presentations

Publications

- Kawano T., Zhou J., Salah H., Dayal A., **Ishikawa Y.,** Anwar S., Takahashi T., Boetel K., Sharma K., and Inoue, M. (2023). T Cell Infiltration into the Brain Triggers Pulmonary Dysfunction in Murine Cryptococcus-associated IRIS. **in press**.

Poster Presentations

- "Brain-Lung Network Disconnection in *Cryptococcus*-associated Immune Reconstitution Inflammatory Syndrome," The Undergraduate Research Symposium, University of Illinois at Urbana-Champaign, IL, April 28th, 2022.

Skills

- **Molecular Biology:** Immunohistochemistry, Fluorescence Microscopy, Genotyping, Brain Cryosectioning
- **Neuroimaging:** FSL, SPM, FreeSurfer, Connectome Workbench
- **Programming:** Python (Pandas, Multiprocessing, Matplotlib, Keras, Scikit-Learn, TensorFlow), R, Bash, MATLAB
- **Machine Learning:** Bayesian Optimization, Basic Algorithms (Language Processing, Reinforcement Learning)

Additional Skills

- **Language:** Japanese (Native), English (Fluent / TOEFL iBT 94)