

Emir Turkes

PHD STUDENT - NEUROSCIENCE

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Summary

Select Skills

Multomics analysis, structural/functional MRI, data mining/analytics, software development, reproducible/high-performance computing, mouse phenotyping/surgery, general molecular biology

Publications

Kiryk, A., Janusz, A., Zgnilicki, B., **Turkes, E.**, Knapska, E., Konopka, W., Lipp H., Kaczmarek, L. (2020). *Intelligage as a tool for measuring mouse behavior – 20 years perspective*. Behavioural Brain Research, 112620. <https://doi.org/10.1016/j.bbr.2020.112620>

Turkes, E. (2018). *A Never-ending Journey to Explore the Gene and Environment Interaction Upon Autism Spectrum Disorders*. Master's thesis. The University of Tokyo.

Education

University College London

PHD NEUROSCIENCE (*expected*)

September 2019 - Present

The University of Tokyo

MS HEALTH SCIENCE

April 2016 - March 2018

Boston University

BA NEUROSCIENCE

September 2011 - May 2015

Experience

Technician B

TAUB INSTITUTE AT COLUMBIA UNIVERSITY *under Karen E. Duff, PhD*

New York, NY, USA

February 2019 - Present

- Investigate cell-type vulnerability to pathologic tau using multiomics methods, particularly single-cell RNA sequencing and gene set enrichment analysis.
- Explore molecular function and interacting partners of the autophagy-related BAG3 gene using mass-spec proteomics coupled with co-immunoprecipitation.
- Implement pharmacoepidemiology workflows that mine clinical data sources for drug repurposing candidates.

Graduate Student

PHENOVANCE LLC *under Toshihiro Endo, PhD*

Chiba, Japan

September 2016 - March 2018

- Wrote and defended master's thesis on the development of new software and experimental paradigms for Intelligage, an automated home cage system for reproducible animal behavior research. Validation was performed on a gene-environment interaction mouse model of autism.
- Helped maintain and prep mouse colonies, particularly implantation of RFID tags and infusion pumps, drug administration, and brain dissection/isolation for epigenome and transcriptome analysis.
- Master's work funded under the Rotary Yoneyama Scholarship.

Research Assistant

BOSTON UNIVERSITY SPEECH LAB *under Frank H. Guenther, PhD, MS*

Boston, MA, USA

June 2015 - February 2016

- Presented a first author poster at NeuroHAM on Human Connectome Project rs-fcMRI analyses that suggest multiple changes to the DIVA model of speech production.
- Created MATLAB scripts that automate the generation of formatted functional connectivity maps that have since been compiled into a textbook describing speech motor control. Started work on converting script into a MATLAB toolbox.
- Assisted in various other fMRI and tractography analyses, particularly with autistic and stuttering patients.

Learning Assistant (*volunteer*)

BOSTON UNIVERSITY NE204 *under Mark A. Kramer, PhD*

Boston, MA, USA

January 2015 - May 2015

- Provided instruction on the use of Matlab for NE204: Intro to Computational Models of Brain and Behavior.

Research Assistant (*volunteer*)

SHORE NEUROLOGY PA *under Gerald J. Ferencz, MD*

Toms River, NJ, USA

May 2013 - August 2013

- Helped coordinate Phase II, III, and IV clinical trials for treatment of neurological disease.