

JAEEON LEE

Department of Neurobiology
Harvard Medical School
200 Longwood Avenue, Boston MA 02115
Email: jaylee@g.harvard.edu
Cell: +1-857-701-0777

EDUCATION

Harvard University , Department of Neurobiology, MA Ph. D. Candidate in Neuroscience Advisor: Prof. Bernardo Sabatini	09/2015-Present
KAIST , Department of Bio and Brain Engineering, Korea B. S. in Bio and Brain Engineering (<i>Magnum cum laude</i>)	02/2015

RESEARCH

Harvard University , Sabatini Lab	05/2016-Present
<ul style="list-style-type: none">Investigating the computation of the striatal indirect pathway during lateralized decision making via tapered fiber optogenetics combined with in-vivo recording in superior colliculus (<i>ongoing</i>)Mapping topography of basal ganglia output nuclei using an anterograde tracer (AA1.Cre) and functional mapping of striatal regions for distinct behavior using tapered fiber stimulation (<i>published</i>)Development of simultaneous depth dependent photometry using tapered fibers, and simultaneous dLight imaging in dorsal/ventral striatum (<i>published</i>)	
KAIST , Jung Lab	02/2014-06/2015
<ul style="list-style-type: none">Investigating the effect of dopamine 6-OHDA lesion on striatal value coding during classical conditioning.	

HONORS & AWARDS

Harvard Brain Initiative Travel Award (visit to Branco's lab)	2019
Iljou foundation Scholarship (5 years)	2015-present
National Excellence Scholarship	2010-2014
Research Internship Scholarship (OIST internship, 6 months)	2013-2014
Exchange Program Scholarship (EPFL Exchange program)	2013
International Internship Program Scholarship (Upenn Summer Computational Neuroscience course)	2013
Honors Student	2012
Best Paper Award, Introduction to Design and Communication	2011

CONFERENCES & TALKS

- Talk** for Neurobiology departmental seminar, Harvard Medical School, MA, US 2019
Investigating the computation of the striatal indirect pathway (Lee, J., Sabatini, B.)*
- Talk** at Tiago Branco's lab, Sainsbury Wellcome Centre, London, United Kingdom 2019
Investigating the computation of the striatal indirect pathway (Lee, J., Sabatini, B.)*
- Poster presentation** for Society for Neuroscience 2018, San Diego, US 11/2018
Mapping the basal ganglia topography (Lee, J., Wang, W., Sabatini, B.)*

PUBLICATIONS

Lee, J.*, Sabatini, B. Striatal D2 pathway mediates competition between lateralized actions. *Manuscript in prep* (2020).

Lee, J.*, Wang, W., Sabatini, B. Anatomically segregated basal ganglia pathways allow parallel behavioral modulation. *Nat Neurosci* (2020).

Pisano, F.*, Pisanello, M.*, Lee, S.J. **Lee, J.**, *et al.*. Depth-resolved fiber photometry with a single tapered optical fiber implant. *Nat Methods* **16**, 1185–1192 (2019).

TEACHING

- Teaching assistant** for Matlab Bootcamp (assisted programming in Matlab) 6/2019
- Teaching assistant** for Thinking about Data (assisted programming in Matlab/statistical analysis) 9/2018

REFERENCES

Bernardo Sabatini, MD, PhD

Professor of Neurobiology

Harvard Medical School Department of Neurobiology

200 Longwood Avenue, Boston MA 02115

Email: bernardo_sabatini@hms.harvard.edu

Mark Anderman, PhD

Associate Professor in Medicine

Beth Israel Deaconess Medical Center, Center for Life Sciences, Room 701,

3 Blackfan Circle, Boston, MA 02115

Email: manderma@bidmc.harvard.edu

Naoshige Uchida, PhD

Professor of Molecular and Cellular Biology

Harvard University Biolabs 4057

16 Divinity Avenue, Cambridge, MA 02138

Email: uchida@mcb.harvard.edu

Wade Regehr, PhD

Professor of Neurobiology

Harvard Medical School Department of Neurobiology

Goldenson Building, Room 308

220 Longwood Avenue, Boston, MA 2115

Email: wregehr@hms.harvard.edu