

JAEEON LEE

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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 colliculusMapping topography of basal ganglia output nuclei using an anterograde tracer (AA1.Cre) and functional mapping of striatal regions for distinct behavior using tapered fiber stimulationDevelopment of simultaneous depth dependent photometry using tapered fibers, and simultaneous dLight imaging in dorsal/ventral striatum	
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 indirect pathway mediates action switching via modulation of collicular dynamics. *bioRxiv* (2020).
- Lee, J.***, Wang, W., Sabatini, B. Anatomically segregated basal ganglia pathways allow parallel behavioral modulation. *Nat. Neurosci.* 1–11 (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

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