

# JAEEON LEE

Department of Neurobiology  
Harvard Medical School  
200 Longwood Avenue, Boston MA 02115  
Email: [jaylee@g.harvard.edu](mailto:jaylee@g.harvard.edu)  
Website: <https://jel0624.github.io/>  
Cell: +1-857-701-0777

## EDUCATION

---

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

## RESEARCH

---

<b>Harvard University</b> , Sabatini Lab	05/2016-Present
<ul style="list-style-type: none"><li>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>)</li><li>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>)</li><li>Development of simultaneous depth dependent photometry using tapered fibers, and simultaneous dLight imaging in dorsal/ventral striatum (<i>published</i>)</li></ul>	
<b>KAIST</b> , Jung Lab	02/2014-06/2015
<ul style="list-style-type: none"><li>Investigating the effect of dopamine 6-OHDA lesion on striatal value coding during classical conditioning.</li></ul>	

## 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](mailto: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](mailto: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](mailto: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](mailto:wregehr@hms.harvard.edu)