

JAE EON LEE

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EDUCATION

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| 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

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| Harvard University , Sabatini Lab | 05/2016-07/2021 |
| <ul style="list-style-type: none">Investigating the function of the striatal indirect pathway during cue-lick tasks. Performed optogenetic perturbation with in vivo recording.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.Development 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

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| 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

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| VIDA Dopamine conference 2021 , Poster, Virtual Conference | 2021 |
| <i>Striatal indirect pathway mediates exploration via modulation of collicular dynamics (Lee, J.*, Sabatini, B.)</i> | |
| Brain Initiative Meeting 2021 , Poster, Virtual Conference | 2021 |
| <i>Striatal indirect pathway mediates exploration via modulation of collicular dynamics (Lee, J.*, Sabatini, B.)</i> | |
| Cosyne 2021 , Poster, Virtual Conference | 2021 |
| <i>Striatal indirect pathway mediates exploration via modulation of collicular dynamics (Lee, J.*, Sabatini, B.)</i> | |
| Neurobiology Departmental Seminar , Talk, Harvard Medical School, MA, US | 2019 |
| <i>Investigating the computation of the striatal indirect pathway (Lee, J.*, Sabatini, B.)</i> | |
| Tiago Branco's lab , Talk, Sainsbury Wellcome Centre, London, United Kingdom | 2019 |
| <i>Investigating the computation of the striatal indirect pathway (Lee, J.*, Sabatini, B.)</i> | |
| Society for Neuroscience 2018 , Poster, San Diego, US | 11/2018 |
| <i>Mapping the basal ganglia topography (Lee, J.*, Wang, W., Sabatini, B.)</i> | |

PUBLICATIONS

Lee, J.*, Sabatini, B. Striatal indirect pathway mediates exploration via collicular competition. *Nature*. (accepted).

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

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| 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

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Mark Anderman, PhD

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