

# Harris S. Kaplan – CV

## Personal Data

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## Academic Career

2020 - present Postdoctoral fellow with Professor Catherine Dulac, Harvard University, Massachusetts, USA.  
HHMI Fellow of the Jane Coffin Childs Fund, Jan 2021 – Jan 2024.  
2012 - 2019 Ph.D. with Dr. Manuel Zimmer at the Research Institute of Molecular Pathology (IMP), Vienna, Austria.  
Ph.D. received July 12, 2019.  
2008 - 2011 B.A. in Biology at New York University (NYU) awarded *summa cum laude*; Honors Thesis with  
Professor Justin Blau, New York, USA.

## Publications

Kaplan HS, Logeman BL, Zhang K, Santiago C, Sohail N, Naumenko S, Ho Sui SJ, Ginty DD, Ren B, and Dulac C (2024). Sensory input, sex, and function shape hypothalamic cell type development. **Biorxiv**. Currently in revision.

Nimpf S, Kaplan HS, Nordmann GC, Cushion T, Keays DA (2024). Long-term, high-resolution in vivo calcium imaging in pigeons. **Cell Reports Methods** 2024 Feb 13:100711. doi: 10.1016/j.crmeth.2024.100711

Kaplan HS\*, Horvath T\*, Rahman MM\*, and Dulac C (2024). The neurobiology of parenting and infant-evoked aggression. Review article, currently in revision. \*Authors with equal contribution.

Kaplan HS<sup>†</sup> and Zimmer M (2020). Brain-wide representations of ongoing behavior: a universal principle? **Current Opinion in Neurobiology** 64, 60-69. DOI: 10.1016/j.conb.2020.02.008. <sup>†</sup>Corresponding author.

Kaplan HS\*, Salazar Thula O\*, Khoss N, and Zimmer M (2020). Nested neuronal dynamics orchestrate a behavioral hierarchy across timescales. **Neuron** 5 February 2020. DOI: 10.1016/j.neuron.2019.10.037. \*Authors with equal contribution.

Kaplan HS, Nichols ALA, and Zimmer M (2018). Opinion piece. Sensorimotor integration in *Caenorhabditis elegans*: a reappraisal towards dynamic and distributed computations. **Philosophical Transactions of the Royal Society B: Biological Sciences** 2018 Sep 10; 373 (1758). DOI: <http://doi.org/10.1098/rstb.2017.0371>

Kaplan HS and Zimmer M (2018). Preview article. Sensorimotor integration for decision making: how the worm steers. **Neuron** 97(2), 258-260. DOI: 10.1016/j.neuron.2017.12.042

Hums I, Riedl J, Mende F, Kato S, Kaplan HS, Latham R, Sonntag M, Traunmüller T, and Zimmer M (2016). Regulation of two motor patterns enables the gradual adjustment of locomotion strategy in *Caenorhabditis elegans*. **eLife** 2016;5:e14116. DOI: 10.7554/eLife.14116

Kato S\*, Kaplan HS\*, Schrödel T\*, Skora S, Lindsay TH, Yemini E, Lockery S, Zimmer M (2015). Global brain dynamics embed the motor command sequence of *Caenorhabditis elegans*. **Cell**, 163(3), 656–669. DOI: 10.1016/j.cell.2015.09.034  
\*Authors with equal contribution.

Collins B, Kaplan HS, Cavey M, Lelito KR, Bahle AH, Zhu Z, Macara AM, Roman G, Shafer OT, Blau J (2014). Differentially timed extracellular signals synchronize pacemaker neuron clocks. **PLoS Biol**, 12(9): e1001959. DOI: 10.1371/journal.pbio.1001959

## Recognition

2022	Best Poster Award, Hypothalamus Gordon Research Conference, Ventura, CA
2022	Distinction in Teaching Award, Harvard College (TF for MCB125: Molecular basis of behavior)
2020	HHMI Jane Coffin Childs Fellowship
2019	PhD Award, most outstanding thesis, Vienna BioCenter
2019	PhD Award, most outstanding thesis in Austria, ÖGMBT Life Science
2017	Best Poster Award, Austrian Neuroscience Association meeting, Vienna, Austria
2015	Mattias Lauwers Award, best student seminar, Vienna BioCenter
2014	Best Poster Award, Vienna BioCenter PhD Student retreat
2012	Borgman Thesis Award, NYU
2011	BA degree <i>summa cum laude</i> , NYU
2011	Kupciner-Getz Program Scholar, Weizmann Institute of Science, Israel
2011	George Schwartz Prize in Biology, NYU

## Invited talks

2023	4D Nucleome Neuroscience Subgroup
2023	Harvard MCB departmental retreat
2023	Harvard Neurodevelopment Workshop
2022	Brain Initiative Cell Census Network, Developmental Subgroup
2022	Harvard MCB department seminar series
2019	Janelia Junior Scientist Workshop, Biological Optical Microscopy
2019	Whole-Brain Imaging Workshop, International <i>C. elegans</i> Meeting, UCLA
2018	The International Congress of Neuroethology, Brisbane, Australia
2015	Gordon Research Conference on Neuromodulation, Hong Kong
2014	Featured Invited Speaker, <i>C. elegans</i> Neuroscience Meeting, Madison, Wisconsin
2014	Stanford University <i>C. elegans</i> community
2010	NYU iGEM synthetic biology competition team member