Curriculum Vitae (updated 5/22/2025)
Olivia A. Kim, MA, PhD

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APPOINTMENTS

Assistant Professor 2023-present
Program in Neuroscience, Bates College, Lewiston, ME

EDUCATION & TRAINING

Postdoctoral Research Fellow, Advisor: Jordan A. Taylor, PhD 2020-2023
Dept. of Psychology, Princeton University, Princeton, NJ

Visiting Postdoctoral Researcher, Advisor: Samuel D. McDougle, PhD 2021-2023
Dept. of Psychology, Yale University, New Haven, CT

PhD, Neuroscience, Advisor: Javier F. Medina, PhD 2015-2020
Div. of Neuroscience, Baylor College of Medicine, Houston, TX

MA, Psychology, Advisors: Lori Flanagan-Cato, PhD & Javier F. Medina, PhD 2014-2015
Dept. of Psychology, University of Pennsylvania, Philadelphia, PA

BA, Psychology, Research Advisor: Mark O. West, PhD 2010-2014
Rutgers University, New Brunswick, NJ
Minor: Philosophy

PUBLICATIONS

B Parrell, C Naber, **OA Kim**, CA Nizolek, SD McDougle (2024). Audiomotor prediction errors drive speech adaptation even in the absence of overt movement. *bioRxiv*. https://doi.org/10.1101/2024.08.13.607718

N Al-Fawakhiri, A Ma, JA Taylor, **OA Kim** (2023). Exploring the role of task success in implicit motor adaptation. *Journal of Neurophysiology*, *Journal of neurophysiology*, *130*(2). https://doi.org/10.1152/jn.00061.2023

OA Kim, AD Forrence, & SD McDougle (2022). Motor learning without movement. *Proceedings of the National Academy of Sciences*, *119*(30). https://doi.org/10.1073/pnas.2204379119

NP Achilly, LJ He, **OA Kim,** S Ohmae, GJ Wojaczynski, T Lin, RV Sillitoe, JF Medina, HY Zoghbi (2021). Deleting Mecp2 from the cerebellum rather than its neuronal subtypes causes a delay in motor learning in mice. *eLife,* 10. https://doi.org/10.7554/eLife.64833

OA Kim, S Ohmae, S., & JF Medina (2020). A cerebello-olivary signal for negative prediction error is sufficient to cause extinction of associative motor learning. *Nature Neuroscience,* 23(12). https://doi.org/10.1038/s41593-020-00732-1

SA Heiney, S Ohmae, **OA Kim,** & JF Medina (2018). Acute, single-unit recordings combined with optogenetic manipulations in the awake, behaving mouse during eyeblink conditioning. Ed. R. V. Sillitoe. In *Neuromethods: Extracellular Recording Approaches (pp. 39-71).*

DJ Barker, BM Striano, KR Coffey, DH Root, AP Pawlak, **OA Kim,** J Kulik, AT Fabbricatore, & MO West (2014) Sensitivity to self-administered cocaine within the lateral preoptic-rostral lateral hypothalamic continuum. *Brain Structure and Function,* 220 (3). https://doi.org/10.1007/

FUNDING

NIH F32: An investigation into the neurobehavioral interactions between sensory- and reward- prediction errors during motor learning.
PI: OA Kim. Agency: NIH NINDS. Dates: 9/2022 – 8/2023 Project Number: 1F32NS122921

NIH F31: Computation of negative prediction error in the inferior olive and its role in cerebellar motor learning.
PI: OA Kim. Agency: NIH NINDS. Dates: 7/2017 – 6/2020 Project Number: 1F31NS103427

SELECTED PRESENTATIONS

OA Kim, L Mindlin (2025). Improvement in cognitive strategy-based performance during a visuomotor adaptation task. Poster given at the 2025 Annual Meeting of the Society for the Neural Control of Movement in Veracruz, Panama.

OA Kim, JA Taylor (2023). Improvement in cognitive strategy-based performance during a visuomotor adaptation task. Poster given at the 2024 Annual Meeting of the Society for Neuroscience in Washington, DC.

OA Kim, C Velázquez-Vargas, JA Taylor (2022). The use of mental rotation strategies in a visuomotor adaptation task incurs a distinct cognitive effort cost. Poster given at the 31st Annual Meeting of the Society for the Neural Control of Movement, Dublin, Ireland.

OA Kim, AD Forrence, SD McDougle (2021). Sensory prediction errors are sufficient for implicit adaptation of withheld movements. Talk at MLMC.

OA Kim, AD Forrence, SD McDougle (2021). Remotely Quantifying Visuomotor Learning with and without Movement. Talk at BeOnline Conference.

OA Kim, S Ohmae, JF Medina (2021). Inhibition of the inferior olive is sufficient for extinction of cerebellar motor learning. Symposium talk at the 1st China-Japan-Korea International Meeting, 44th Annual Meeting of the Japan Neuroscience Society.

OA Kim, AD Forrence, SD McDougle (2021). Implicit visuomotor adaptation without movement. Blitz talk at the 30th Annual Meeting of the Society for the Neural Control of Movement.

OA Kim, S Ohmae, JF Medina (2020). Cerebellar error signals and plasticity during extinction of delay eyeblink conditioning. Neurophysiologisches Seminar, Universitätsmedizin Essen.

OA Kim, JF Medina (2019). Learning to stop: A process driven by silencing the olive. Talk given at the 29th Annual Rush and Helen Record Forum for Neuroscience. Galveston, TX.

OA Kim, JF Medina (2017). Transient stimulation of inhibitory cerebello-olivary terminals causes extinction of conditioned eyelid responses. Gordon Research Seminar on the Cerebellum. Lewiston, ME. 2017.

OA Kim, KR Coffey, DJ Barker, S Ma, AP Pawlak, AT Fabbricatore, MO West (2014). Evidence for tuning to preferred drug levels during cocaine self-administration by nucleus accumbens neurons. Poster presented at Society for Neuroscience, Washington D. C.

TEACHING

Cognitive Neuroscience Lecture/Lab	Winter 2024
Seminar in Biological Psychology: Motor Control	Winter 2024
What Makes Up Your Mind? Neurocognitive Processes for Decision Making and Control	Fall 2024
Methods in Neurohistology	Short Term 2024
The Neuroscience of Video	Winter, Fall 2024
Physiological Psychology Lecture/Lab	Fall 2023, 2025

SERVICE

Institutional Animal Care and Use Committee, Bates College	2024 - present
Phi Beta Kappa, Gamma Chapter of Maine Vice President	2024 - present
Princeton Distress Awareness and Response (PDAR) Partner, Princeton Univ.	2022
Symposium Co-chair, Chair: Shogo Ohmae, PhD	July 31, 2021
Session title: Understanding and modeling cerebellar functions	
1st China-Japan-Korea International Meeting	
44th Annual Meeting of the Japan Neuroscience Society	
Writing Accountability Group Leader, BCM	2020
Lecturer, Buddy program coordinator, BCM Neuroscience Bootcamp	2016, 18, 20
Instructor & Experiment Leader, Philadelphia Area Girls Enjoying Science	11/2014
Meeting Coordinator, Behavioral Neuroscience at Penn	9/2014-5/2015
Classroom Assistant, Penn Early Access to Graduate Research	11/2014