

# Gerick M. Lee

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## Education

2015–2023	PhD in Neural Science, New York University
2011–2014	MSc in Neural Systems and Computation, University of Zurich and ETH Zurich
2007–2011	BSc in Biochemistry; BSc in Biology (Cell, Molecular, and Developmental), Minors in Applied Mathematics and Chemistry, University of Washington

## Professional experience

2023–Present	Postdoctoral Associate; Movshon and Kiorpes Labs, New York University.
2015–2023	Predocctoral Fellow; Movshon and Kiorpes Labs, New York University.
2014	Endeavour Research Fellow; Tsuchiya Lab, Monash University.
2012–2013	Master’s Student; Huber Lab, Kinderspital Zurich.
2010–2011	Undergraduate Research Assistant; Fetz Lab, University of Washington.
2009	Undergraduate Research Assistant; Karlsson Lab, Reykjavik University.

## Publications

### Peer reviewed

JD Lieber, **GM Lee**, NJ Majaj, and JA Movshon. Sensitivity to naturalistic texture relies primarily on high spatial frequencies. *Journal of Vision*, 23(2):4, 2023

**GMH Lee**, S Fattinger, A-L Mouthon, Q Noirhomme, and R Huber. Electroencephalogram approximate entropy influenced by both age and sleep. *Frontiers in Neuroinformatics*, 7(33), 2013

### Preprints

**GM Lee**, CL Rodríguez Deliz, BN Bushnell, NJ Majaj, JA Movshon, and L Kiorpes. Developmentally stable representations of naturalistic image structure in macaque visual cortex. *bioRxiv*, 2024

CL Rodríguez Deliz, **GM Lee**, BN Bushnell, NJ Majaj, JA Movshon, and L Kiorpes. Development of radial frequency pattern perception in macaque monkeys. *bioRxiv*, 2024

## Posters and conference proceedings

- AE Sutter, **GM Lee**, TD Oleskiw, NM Majaj, L Kiorpes, and JA Movshon. Evaluating developmental shape selectivity from simultaneous multi-unit recordings along the ventral visual pathway. *Vision Sciences Society*, 2023
- TD Oleskiw, JH Elder, I Freund, **GM Lee**, AE Sutter, A Pasupathy, EP Simoncelli, JA Movshon, L Kiorpes, and NJ Majaj. V4 neurons are tuned for local and non-local features of natural planar shape. *Vision Sciences Society*, 2023
- TD Oleskiw, JH Elder, **GM Lee**, AE Sutter, A Pasupathy, EP Simoncelli, JA Movshon, L Kiorpes, and NJ Majaj. V4 neurons are tuned for local and non-local features of natural planar shape. *Computational and Systems Neuroscience*, 2023
- CL Rodriguez-Deliz, **GM Lee**, NJ Majaj, JA Movshon, and L Kiorpes. Behavioral and neural sensitivity to simple shapes in developing macaques. *Society for Neuroscience*, 2022
- GM Lee**, CL Rodriguez-Deliz, NJ Majaj, JA Movshon, and L Kiorpes. Perceptual and neural representations of texture naturalness in developing monkeys. *AREADNE*, 2022
- GM Lee**, CL Rodriguez-Deliz, NJ Majaj, JA Movshon, and L Kiorpes. Perceptual and neural representations of texture naturalness in young macaques. *Vision Sciences Society*, 2022
- GM Lee**, CL Rodriguez-Deliz, NJ Majaj, JA Movshon, and L Kiorpes. Perceptual and neural representations of naturalistic texture information in developing monkeys. *Computational and Systems Neuroscience*, 2022
- GM Lee**, CL Rodriguez-Deliz, NJ Majaj, JA Movshon, and L Kiorpes. Neural measurements of sensitivity to texture naturalness in developing macaques. *Vision Sciences Society*, 2021
- CL Rodriguez-Deliz, **GM Lee**, NJ Majaj, JA Movshon, and L Kiorpes. Behavioral and neural analysis of the development of shape sensitivity in macaques. *Vision Sciences Society*, 2021
- JD Lieber, **GM Lee**, NJ Majaj, and JA Movshon. Naturalistic texture perception relies preferentially on high spatial frequencies. *Vision Sciences Society*, 2020
- GM Lee**, DA Seibert, NJ Majaj, JA Movshon, and L Kiorpes. Sensitivity of inferotemporal cortex to naturalistic image statistics in developing macaques. *Vision Sciences Society*, 2019
- M Cardoso, NJ Majaj, **GM Lee**, K Garcia, and L Kiorpes. Quick contrast sensitivity assessment in primates using an exploratory search task. *Vision Sciences Society*, 2019
- GM Lee**, LE Hallum, NJ Majaj, L Kiorpes, and JA Movshon. Altered sensitivity to naturalistic image statistics in amblyopia. *Society for Neuroscience*, 2017
- GM Lee**, S Fattinger, A-L Mouthon, Q Noirhomme, and R Huber. Electroencephalogram approximate entropy influenced by both age and sleep. *Association for the Scientific Study of Consciousness*, 2014
- GM Lee**, T Noda, H Takahashi, and N Tsuchiya. Coding of auditory stimulus parameters between conscious states in the rat. *Centre for Integrative Brain Function Workshop*, 2014
- GM Lee**, S Fattinger, A-L Mouthon, and R Huber. Approximate entropy analysis of wake and sleep EEG data in adults and children. *Neuroscience Center Zurich Symposium*, 2013

## Awards and funding

2020–2023	NIH: Ruth L. Kirschstein NRSA Predoctoral Fellowship (F31-EY031249). Funding for cost of living, travel, and equipment.
2018–2019	NIH: Institutional Training Grant (T32-EY007136) Funding for cost of living and travel.
2017–2018	NIH: Institutional Training Grant (T90-DA043219) Funding for cost of living and travel.
2014	Australian Department of Education: Endeavour Research Fellowship. Cost of living and relocation funds for a six-month fellowship.

## Mentorship

2023–present	Remi Saad, undergraduate, New York University
2021–2023	A. Ezra Sutter, undergraduate, Drew University (currently PhD Student, Carnegie Mellon University)
2021–2022	Kiley Gan, undergraduate, New York University (co-supervised)

## Invited talks

2023	University of Washington, Computational Neuroscience Seminar
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## Teaching

2017–2023	Programming Instructor: Summer Undergraduate Research Program (Program directors: Chiye Aoki and Margarita Kaplow; lecturing on basic programming).
2017	Teaching Assistant: Introduction to Neural Data Analysis (Main instructor: Weiji Ma; lecturing on statistics and basic programming). Departmental nominee - 2017 Dean's Outstanding Graduate Student Teaching Award.

## Other items

### Continuing education

2022	European Visual Neuroscience Summer School, Rauischholzhausen, Germany
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### Community outreach

2023 – Present	Board Member, 31st Ave Open Street, Astoria, NY
2020	Guest contributions on signage and colorblindness, Seattle Transit Blog
2016	Brain Awareness Week Open House, New York
2015	Brain Awareness Week Open House, Seattle
2014	Mindfields School Outreach Program, Melbourne
2012	Brainfair Exposition, Zurich

## Languages (CEF Standard)

English	Native
German	B2 - Advanced
Spanish	A2 - Beginner

## References

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