NA YEON KIM

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ACADEMIC APPOINTMENTS

2021- Postdoctoral Scholar
California Institute of Technology, Pasadena, CA

Winter 2023 Lecturer in Psychology, part-time
California Institute of Technology, Pasadena, CA

EDUCATION

2021 Ph.D. **Princeton University**, Princeton, NJ
Cognitive Psychology and Neuroscience
Dissertation: The Neural Basis of Visuo-spatial Attention in School-aged Children

2018 M.A. **Princeton University**, Princeton, NJ
Cognitive Psychology and Neuroscience

2013 B.A. **Yale University**, New Haven, CT
Cognitive Science

HONORS AND AWARDS

2021 – 2023 Della Martin Postdoctoral Fellowship
2018 Flux Ambassador Award, Flux Congress (Berlin, Germany)
2016 Brains, Minds, and Machines Workshop Fellowship, Marine Biology Laboratory
2012 Yale College Dean's Research Fellowship in the Sciences
2012 Sherwood E. Silliman Travel Fellowship
2010 Perspectives on Science and Engineering Summer Research Fellowship
2009 – 2013 Korea Presidential Honors (full tuition support for undergraduate studies abroad, selected ten students majoring in science and engineering: total amount $200,000)

PUBLICATIONS

Manuscripts in prep/under review

Kim, N. Y., Hoyos, P. M., & Kastner, S. (in prep) Functional connectivity within the dorsal fronto-parietal network predicts spatial attention bias in children.

Peer-reviewed journal articles

Kim, N. Y., Pinsk M. A., & Kastner, S. (2021) Neural basis of biased competition in development: Sensory competition in visual cortex of school-aged children. *Cerebral Cortex*.

Hoyos, P. M.*, **Kim, N. Y.***, Cheng, D., Finkelston, A., & Kastner, S. (2020) Development of spatial biases in school-aged children. *Developmental Science*, e13053. * Co-first author

Kim, N. Y. & Kastner, S. (2019) A biased competition theory for the developmental cognitive neuroscience of visuo-spatial attention. *Current Opinion in Psychology*, 29, 219-228.

Engell, A. D., **Kim, N. Y.**, & McCarthy, G. (2018) Sensitivity to faces with typical and atypical part configurations within regions of the face-processing network: An fMRI study. *Journal of Cognitive Neuroscience,* 30:7, 963-972.

Kim, N. Y. & McCarthy, G. (2016). Task-relevant effects on pattern discriminability between faces and bodies in the fusiform gyrus. *Social Neuroscience, 0919*, 1-10.

Kim, N. Y., Lee, S. M., Erlendsdottir, M., & McCarthy, G. (2014). Discriminable spatial patterns of activation for faces and bodies in the fusiform gyrus. *Frontiers in Human Neuroscience*, 8, 1–12.

Outreach articles

Hoyos, P. M., **Kim, N. Y.**, & Kastner, S. (2022) Left or Right? How Attention and Reading Develop Together. *Frontiers for Young Minds*, 10:734161.

Hoyos, P. M., **Kim, N. Y.**, & Kastner, S. (2019) How is magnetic resonance imaging used to learn about the brain? *Frontiers for Young Minds*, 7:86.

CONFERENCE PRESENTATIONS (selected)

Kim, N. Y., Wu, Q., Keles, U., Paul, L. K., Adolphs. R. (2022). Probing individual differences in visual attention and autism traits: A large-scale online eye-tracking study. Poster presented at *Flux Congress: International Society for Developmental Cognitive Neuroscience*.

Kim, N. Y., Hoyos, P. M., & Kastner, S. (2020). Searching for a neuromarker of spatial attention bias in school-aged children. Interactive talk presented at *NeuroMatch 3.0 Virtual*: https://youtu.be/GiDa8BhfBzs.

Kim, N. Y., Hoyos, P. M., & Kastner, S. (2020). Searching for a neuromarker of spatial attention bias in school-aged children. Poster presented at *Flux Congress: International Society for Developmental Cognitive Neuroscience (Virtual)*.

Hoyos, P. M., **Kim, N. Y.**, Igelström, K., Pecsok, M., Pinsk M. A., & Kastner, S. (2019) Establishing a neural basis for the high frequency of comorbidity amongst RD, ADHD, and DCD. Poster presented at *Flux Congress: International Society for Developmental Cognitive Neuroscience*, New York City, NY.

Kim, N. Y., Pinsk M. A., & Kastner, S. (2019) Neural basis of biased competition in development: Sensory suppression in visual cortex of school-aged children. Poster presented at *Flux Congress: International Society for Developmental Cognitive Neuroscience*, New York City, NY.

Kim, N. Y., Pinsk M. A., & Kastner, S. (2018) Development of sensory competition in the visual cortex: An fMRI study in school aged children. Poster presented at *Flux Congress: International Society for Developmental Cognitive Neuroscience*, Berlin, Germany.

TEACHING AND ADVISING

California Institute of Technology
Postdoctoral Lecturer
PSY 101: Selected Topics in Psychology, Winter 2023

Princeton University
Head Lab Instructor
PSY 101: Introduction to Psychology, Fall 2019

Teaching Assistantship
PSY 251: Quantitative Methods, Preceptor, Spring 2019
PSY/NEU 260: The Life Cycle of Behaviors, Preceptor, Spring 2018
PSY 345/NEU 325: Sensation and Perception, Preceptor, Fall 2017
PSY 101: Introduction to Psychology, Lab Instructor, Fall 2016

Guest Lectures
PSY 101: Introduction to Psychology (Title: Conditioning and Learning, Behaviorism), Fall 2019
PSY/NEU 260: The Life Cycle of Behaviors (Title: Child Development), Spring 2018

Research Advisees
Carla Adrianna Luna, Undergraduate summer research student (Caltech WAVE Program) at Caltech
Patricia Hoyos, Undergraduate senior thesis project and full-time research assistant at Princeton University
Debby Cheng, Undergraduate senior thesis project at Princeton University
Maggie Pecsok, Undergraduate senior thesis project at Princeton University
Abby Finkelston, Undergraduate senior thesis project at Princeton University
Heirangi Torrico-Teave, Undergraduate summer research student at Princeton University

PROFESSIONAL SERVICE AND ACTIVITIES

Ad hoc reviews
Attention, Perception, & Psychophysics

Society committees
2019 – 2021 Flux Trainee Committee

University and departmental committees
2022 Poster Presentation Judge at Caltech Undergraduate Summer Research Day (SURF)
2016 – 2017 Princeton Psychology Social Hour Organizer
2016 Princeton Psychology Visiting Day for Prospective Graduate Students —Cognitive Area Organizer

COMMUNITY OUTREACH

2022 City of STEM Exhibitor, Downey CA
2020 North Star Academy Washington Park High School Career Fair, Newark NJ
2020 Jose Marti STEM Academy, Union City NJ
2018 – 2019 Littlebrook Elementary School Science Expo Presenter, Princeton NJ
2018 Hopewell Elementary School Science Fair Judge, Hopewell NJ

2016, 2018 Young Women's Conference in STEM Exhibitor, Princeton NJ
2016 – 2020 Princeton Communiversity Exhibitor, Princeton NJ

PREVIOUS RESEARCH EXPERIENCES

2013 – 2015 Full-time Research Assistant, Human Neuroscience Lab, Psychology, Yale University
- P.I.: Gregory McCarthy
- Work includes fMRI data collection, univariate and multivariate analyses of fMRI data, EEG/ERP experiment, writing manuscripts (see Publication)

2012 – 2013 Senior Thesis Research, Memory and Cognition Lab, Psychology, Yale University
- Advisors: Marcia Johnson, Karen J. Mitchell
- Title: The effect of a future memory test on age-related differences in BOLD response in category-selective regions during perceptual attention.

2012 Summer Research Assistant, Kanwisher Lab, Brain and Cognitive Sciences, MIT
- Advisors: Nancy Kanwisher, Kami Koldewyn
- Projects: visual perception in children with autism; perception of social interaction; work included creating stimuli (short animation clips), running behavioral tasks (children with autism) and assisting fMRI scans