

Hyung Cho (Gloria) Kim | Curriculum Vitae

Doctoral Candidate in Neuroscience and Cognitive Science

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Strengths

Research planning and design; Data-driven decision making; Coordinating and conducting research sessions; Data analyses (quantitative and qualitative); Research in human affect, personality, and behavior; Mentorship; Leadership; Collaboration; Communicating science impact to broader audiences

Education

University of Maryland College Park, MD
Ph.D. in Neuroscience and Cognitive Science 2019 - Present

Advisor(s): Dr. Arianna Gard (current), Dr. Alex Shackman (former)

Dissertation: Linking socioeconomic resources to the brain and behavioral correlates of internalizing psychopathology in youth (anticipated graduation May 2024)

University of Maryland College Park, MD
B.S. in Physiology and Neurobiology (dual-degree) 2015 - 2019
B.S. in Food Science
Minor in Italian Language and Culture

Professional Experience

Growth and Resilience Across Development [Laboratory](#) College Park, MD
Department of Psychology, University of Maryland 2021 - Present
Graduate Student Researcher, Advisor: Dr. Arianna Gard

- o *Dissertation.* Quantitatively analyzing a population level sample of over 11,000 youth across the U.S. to examine how poverty exposure in early life impact the development of anxiety and depression (*statistical analyses in R and Mplus, using traditional hypothesis testing and structural equation modeling frameworks, e.g., latent growth curve modeling*)
- o *Community and Resilient Environments Study.* Quantitatively assessing inter-rater reliability for an observational research project studying social and physical environmental features in D.C. neighborhoods to ensure high quality of research results; thematic analysis of interview data
- o *Youth Participatory Action Research Study.* Co-mentored 6 middle/high school students on a 7-week program. Taught foundational research methods to prepare each student to present a final individual research presentation. Students used observational reporting and photomapping methods to document features of D.C. neighborhoods to answer questions about how environments shape human experiences

Living the Good Life: Psychology of Happiness (University Course) College Park, MD
Department of Psychology, University of Maryland 2022 - Present
Graduate Teaching Assistant, Advisor: Dr. Carole Sebenick

- o Co-taught 4 in-class workshops/lectures to a large, 100+ undergraduate student audience
- o Continuously revised course curriculum with the professor to incorporate previous student feedback for 2 consecutive semesters

Affective and Translational Neuroscience [Laboratory](#)

Department of Psychology, University of Maryland
Graduate Student Researcher, Advisor: Dr. Alex Shackman

College Park, MD
2019 - 2022

- Lead graduate student researcher for data analyses and manuscript preparation for a \$418,000 NIH funded research study, "The Role of Anxiety-Related Brain Circuits in Tobacco Dependence and Withdrawal", which leveraged fMRI, psychophysiological, and smartphone survey measures in 75 daily tobacco smokers to examine how anxiety impacts the maintenance of addiction

Affective and Translational Neuroscience Laboratory

Department of Psychology, University of Maryland
Undergraduate Student Researcher, Advisor: Dr. Alex Shackman

College Park, MD
2015 - 2019

- Developed and refined quality control protocol for neuroimaging datasets (reviewing 200+ brains of research participants), improving validity of research results
- Led data collection sessions in collaboration with MRI operators, collecting brain imaging, heart rate, respiration, skin conductance, and behavioral data

Select Courses, Skills, and Training

Select Courses

- Introduction to Data Visualization *taught in R* (University of Maryland, Instructor: Dr. Richard Traunmüller)
- Quantitative Methods I and II *taught in R* (University of Maryland, Instructor: Dr. Alison Robey)
- Introduction to Programming with MATLAB (Coursera, Instructor(s): Drs. Akos Ledeczki & Mike Fitzpatrick)
- Cognitive Science; Cognitive Neuroscience (University of Maryland, Instructor(s): Dr. Naomi Feldman; Dr. Donald Bolger)
- *Introduction to UI/UX Design* (University of Maryland, Instructor(s): Kat Close, Dr. Mira Azarm)

Specific Skills

- Analyses: Parametric hypothesis testing, correlation, regression, latent growth curve modeling, mixture modeling, semi-structured interview qualitative coding (thematic analysis)
- Proficiency in:
 - Statistical software (R, Rstudio, JASP, Mplus)
 - Adobe Photoshop and Illustrator
 - Survey software (Qualtrics)
- Competency in:
 - MATLAB
 - Linux/Bash
 - MRI data analyses software (SPM12, AFNI)
 - Qualitative data analysis software (Dedoose)
 - Figma
- Conversational skills in Korean and Italian

Trainings

- HIPAA/CITI (Research with human participants training); IRB Certifications
- Maryland Neuroimaging Center MRI Operator Training; MRI Safety Screening Training
- Youth Mental Health First Aid Training
- NIH AFNI Neuroimaging Bootcamp (2019)

Fellowships and Awards

University of Maryland Graduate School Outstanding Teaching Assistant Award (\$300)	2022
Jacob K. Goldhaber Graduate School Travel Award (\$400)	2022
Janet W. Johnson Developmental Psychology Travel Award (\$200)	2022
Dean's Fellowship (\$2,500)	2022
Computation & Mathematics for Biological Networks NSF Fellowship (\$35,000)	2021
Maryland Life Sciences Scholar Citation	2019
Maryland Summer Scholars Research Award (\$3,000)	2018

Service and Outreach

Outreach Representative for the Diversity and Inclusion Committee 2021 - Present
Neuroscience and Cognitive Science Doctoral Program (NACS), University of Maryland

- Annually lead NACS neuroscience-based activities on Maryland Day, design engaging and educational "Brain Trivia" and "Neuron Bookmarks" activities: 200+ participants (2022)
- Organized a "Pathways to Graduate School" panel and neuroscience tabling event, in collaboration with the Louis Stokes Alliances for Minority Participation Program: 28 participants (2022)

Chair of Neuroscience Outreach Committee 2019 - Present
Neuroscience and Cognitive Science Doctoral Program (NACS), University of Maryland

- Launched a "Coffee Chats" program to link NACS PhD students with undergraduates in the neuroscience major/minor, in collaboration with the Neuroscience department (2022)
- Developed and hosted a "Pathways to Neuroscience" virtual panel, in collaboration with the Society for Neuroscience D.C., Johns Hopkins University Neuroscience Program, University of Maryland Medical School: 132 students registered (2021)
- Organized and hosted a panel about experiences in neuroscience research for middle and high schoolers, in collaboration with the Adventures in Science organization: ~50 participants (2020)

Research-to-Policy Collaborator 2022
Call for a research-based policy brief on affordable housing

- Co-wrote a research-based fact sheet addressing, "How does the lack and/or presence of affordable housing impact children, particularly children from minoritized backgrounds?", for the [Research-to-Policy Collaboration](#)
- Research report was submitted directly as a fact sheet to the congressional office

Ad-hoc Academic Manuscript Reviewer 2022
Journal: Cognitive, Affective, and Behavioral Neuroscience, co-reviewed with Dr. Arianna Gard

NACS-Fest Interview Weekend Planning Committee 2019 - 2020
Neuroscience and Cognitive Science Doctoral Program (NACS), University of Maryland

Executive Board Member, Conference Programming Director

2019

Society of Asian Scientists and Engineers (UMD Chapter), Northeastern Regional Conference

- Event programming lead for a large student-organized conference: 490 students registered; event budget \$61,830
- Designed and planned 15 STEM and professional development workshops for the Asian American STEM community (high school, college, and professional level)
- Recruited sponsors such as NASA, CIA, U.S. Army, and P&G for conference support (helping acquire \$36,550 in sponsor contributions)

Event Volunteer & Science Demonstrator

2018-2019

Society for Neuroscience D.C., American Association for the Advancement of Science

- Performed public EEG demonstrations at Brain Awareness Week hosted by the National Museum of Health and Medicine (2019)
- Led neuroanatomy coloring "Brain Hats" and "Science of the Senses" activities at the D.C. Science and Engineering Festival (2018)

Invited Talks and Lectures

Kim, H. C., (April, 2022; October, 2022). Early Life Adversity and Resilience. Guest lecture for the Psychology of Happiness course at the University of Maryland

Kim, H. C., (May, 2022). Linking Socioeconomic Resources to the Brain and Behavioral Correlates of Internalizing Psychopathology in Youth. Guest talk at Developmental Psychology Seminar at the University of Maryland

Kim, H. C., (March, 2022). Stress Mechanisms and its Effects on Well-Being. Guest lecture for the Psychology of Happiness course at the University of Maryland

Kim, H. C., (February, 2022). How to Read and Critique a Research Article. Guest lecture for the Psychology of Happiness course at the University of Maryland

Academic Research Interests

Early life adversity; Instability in socioeconomic resources; Resilience; Neighborhoods; Internalizing (anxiety, depression) outcomes; Affective neuroscience; Neuroimaging (fMRI); Mixed method (quantitative, qualitative) approaches

Publications

Hur, J., Kuhn, M., Grogans, S. E., Anderson, A. S., Islam, S., **Kim, H. C.**, Tillman, R. M., Fox, A. S., Smith, J. F., DeYoung, K. A., Shackman, A. J. (2022). Anxiety-related fronto-cortical activity is associated with dampened stressor reactivity in the real world. *Psychological Science*, 33, 906-924. [PDF](#)

Hur, J., Smith, J. F., DeYoung, K. A., Anderson, A. S., Kuang, J., **Kim, H. C.**, Tillman, R. M., Kuhn, M., Fox, A. S., & Shackman, A. J. (2020). Anxiety and the neurobiology of temporally uncertain threat anticipation. *Journal of Neuroscience*, 40, 7949-7964. [PDF](#)

Under Review

Kim, H. C., Kaplan, C. M., Islam, S., Anderson, A. S., Piper, M. E., Bradford, D. E., Curtin, J. J., DeYoung, K. A., Smith, J. F., Fox, A. S., & Shackman, A. J. (*under review: Clinical Psychological Science*). Acute nicotine abstinence amplifies subjective withdrawal symptoms and threat-evoked fear and anxiety, but not extended amygdala reactivity. [OSF](#)

In Preparation

Kim, H. C., Minker, D., Biskach, M., Landry, K., Mbulaiteye, D., & Shackman, A.J. (*in preparation*). Unlocking the Secrets of the Anxious Brain. *Target Journal: Frontiers for Young Minds*.

Posters

Kim, H.C., Shariq, D., Hughes, M.G., Takarae, Y., & Gard, A. (2022). Moving beyond levels: Instability in poverty exposure as a distinct predictor of internalizing psychopathology. Poster presented at the annual meeting of the International Society for Developmental Psychobiology, San Diego, CA

Grogans, S. E., Hur, J., Kuhn, M., Anderson, A. S., Islam, S., **Kim, H. C.**, Tillman, R. M., Fox, A. S., Smith, J. F., DeYoung, K. A., & Shackman, A. J. (2022). Diminished vmPFC safety signaling is associated with pervasively elevated real-world negative affect. Poster presented at the annual meeting of the Society of Biological Psychiatry, New Orleans, LA

Kim, H.C., Smith, J.F., Islam, S., Anderson, A., Kaplan, C., DeYoung, K., Grogans, S., Fox, A.S., Bradford, D., Curtin, J., Shackman, A.J. (2021). The role of the central extended amygdala in acute nicotine abstinence. Presented at the annual meeting of the Society for Neuroscience (SfN), Virtual

Kim, H. C., Smith, J.F., Shackman, A.J. (2021). Exploring anxiety-related brain networks in nicotine addiction. Presented at the Computation and Mathematics for Biological Networks (COMBINE) Research Symposium, College Park, MD

Kim, H.C., Hur, J., Smith, J.F., DeYoung, K.A., Anderson, A.A., & Shackman, A.J. Neurobiological reactivity to certain and uncertain threat. (2019). Presented at the annual meeting of the Social and Affective Neuroscience Society (SANS), Miami, FL

Hur, J., Smith, J.F., DeYoung, K.A., Anderson, A.A., Tillman, R.M., **Kim, H.C.**, Kuang, J., & Shackman, A.J. (2018). The neurobiology of anticipating uncertain and certain threat. Poster presented at the annual meeting of the Anxiety and Depression Association of America (ADAA), Washington, D.C.

Islam, S., DeYoung, K.A., Barstead, M.G., **Kim, H.C.**, & Shackman, A.J. (2018). Perceived social support and coping self-efficacy predict depression in first-year university students. Poster presented at the annual meeting of the Anxiety and Depression Association of America (ADAA), Washington, D.C.

Kim, H.C., DeYoung, K.A., Tillman, R., & Shackman, A.J. (2017). Correlational study of college freshmen: Self-perception of health and levels of neuroticism. Poster presented at the University of Maryland Scholars Academic Showcase, College Park, MD