

# LEEHYUN YOON, PHD

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Incoming Assistant Professor (2024 -)  
Center for Vital Longevity  
University of Texas at Dallas

## APPOINTMENTS

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Incoming Assistant Professor Department of Psychology, University of Texas at Dallas Center for Vital Longevity	2024-
Postdoctoral Researcher University of California, Davis Center for Mind and Brain	2019-2023

## EDUCATION

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<b>PhD</b> Korea University, Psychology Emphasis on Developmental and Social Neuroscience Dissertation: "Role of the Rostromedial Prefrontal Cortex in Tactical Self-Enhancement" Advisor: Dr. Hackjin Kim	2014-2019
<b>BS</b> Korea University, Psychology and Philosophy University of Maryland, College Park (Exchange Student)	2009-2014 2012

## RESEARCH INTEREST

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Self-belief update, Self-protection, Rumination, Cognitive bias, Social motivation,  
Social behavior, Depression, Adolescent neurodevelopment, Frontolimbic network,  
Default mode network

## PUBLICATIONS

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# of publications: 10, # of first-author publications: 6  
\* denotes equal contribution

Rohrsetzer R., ..., **Yoon, L.**, et al. (2023) An MRI-based morphometric and structural covariance network study of Brazilian adolescents stratified by depression risk. *Brazilian Journal of Psychiatry*.

Beard, S. J., **Yoon, L.**, Venticinque J. S., Shepherd N. E., Guyer, A. E. (2022) The Brain in Social Context: A Systematic Review of Substance Use and Social Processing from Adolescence to Young Adulthood. *Developmental Cognitive Neuroscience*.

Holbrook, C., **Yoon, L.**, Fessler, D.M.T., Jimenez, S., Kim, H. (2022) Moral Parochialism and Causal Appraisal of Transgressive Harm in Seoul and Los Angeles. *Scientific Reports*.

**Yoon, L.**, Rohrsetzer R., Battel L., Anes M., Manfro P. H., Rohde L. A., Viduani A., Zajkowska Z., Mondelli V., Kieling C.\*, Swartz J. R.\* (2022) Frontolimbic network topology associated with risk and presence of depression in adolescence: a study using a composite risk score in Brazil. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*.

**Yoon, L.**, Carranza, A. F., Swartz J. R. Resting-state functional connectivity associated with extraversion and agreeableness in adolescence (2022). *Frontiers in Behavioral Neuroscience*. (invited for a research topic “Prosocial and Hypersocial Behavior: From Genes to Circuits and Behavior”)

**Yoon L.**, Rohrsetzer R., Battel L., Anes M., Manfro P. H., Rohde L. A., Viduani A., Zajkowska Z., Mondelli V., Kieling C.\*, Swartz J. R.\* (2021). Reward- and threat-related neural function associated with risk and presence of depression in adolescents: a study using a composite risk score in Brazil. *Journal of Child Psychology and Psychiatry*.

Kieling C., ..., **Yoon, L.** et al. The Identifying Depression Early in Adolescence Risk Stratified Cohort (IDEA - RiSCo): rationale, methods, and baseline characteristics (2021). *Frontiers in Psychiatry, section Child and Adolescent Psychiatry*.

**Yoon, L.\***, Kim, K.\*, Jung, D., & Kim, H. (2021). Roles of the MPFC and insula in impression management under social observation. *Social, Cognitive, and Affective Neuroscience*.

**Yoon, L.**, Somerville, L., & Kim, H. (2018). Development of MPFC function mediates shifts in self-protective behavior provoked by social feedback. *Nature Communications* (\*selected as **Editors' Highlights**).

**Yoon, L.**, Yoo, M., Ryu, J., & Park, S. (2016). Explicit and Implicit Attitudes Toward Homosexuals. *Korean Journal of Culture and Social Issues*.

### ***In revision / under review***

**Yoon, L.**, Keenan, K., Hipwell, A. E., Forbes, E. E., & Guyer, A. E. (In revision). Hooked on a thought: Associations between rumination and neural responses to social rejection in adolescent girls.

Baranger, D. A. A., Lindenmuth, M., **Yoon, L.**, Guyer, A. E., Keenan, K., Hipwell, A. E., & Forbes, E. E. (in revision). Accelerated neurodevelopment of reward anticipation processing in adolescent girls with depression.

Carranza, A. F., **Yoon, L.**, Rohrsetzer R., Battel L., Manfro P. H., Rohde L. A., Viduani A., Zajkowska Z., Mondelli V., Kieling C. \*, Swartz J. R. \* (In review). Associations between perceived parenting, brain function, and depression symptoms in Brazilian adolescents.

### ***In preparation***

Caouette, J. D. \*, **Yoon, L. \***, Forbes, E. E., Hipwell, A. E., Keenan, K., & Guyer, A. E. (In preparation). Being bullied predicts heightened VMPFC activity to social evaluation.

Shields, G. S., **Yoon, L.**, Hudson, S. I., Vilgis, V., Baranger, D. A. A., Forbes, E. E., Hipwell, A. E., Keenan, K., & Guyer, A. E. (In preparation). Depressive symptoms and striatal volume predict changes in each other in adolescent girls: A four-wave longitudinal study.

Cordero A., Carranza A. F., **Yoon L.**, Rohrsetzer F., Souza L., Piccin J., Fisher H., Kohrt B., Mondelli V., Kieling C. \*, Swartz J. R. \* (In preparation). Longitudinal associations between amygdala-prefrontal cortex connectivity and depressive symptoms in adolescents from Brazil.

Frazier M., **Yoon L.**, Rohrsetzer F., Souza L., Piccin J., Fisher H., Kohrt B., Mondelli V., Kieling C., Swartz J. R. \* (In preparation). Associations between ventral striatum activity and longitudinal depression and anhedonia symptoms in a Brazilian cohort of adolescents.

### ***Ongoing Projects***

**Yoon, L.**, Forbes, E. E., Hipwell, A. E., Keenan, K., Guyer, A. E. Longitudinal association between depression symptoms and interpersonal problems in adolescent girls: 4-wave longitudinal study

### **INVITED TALKS / SYMPOSIUM**

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“Development and Alteration of Rejection-related Brain Function in Adolescents”

Invited talk

Sungkyunkwan University, Human Affective Neuroscience Lab, August 2023

“Peer Exclusion in Childhood and Adolescence: Multi-level Mechanisms and Risk for Depression”

Society for Research on Child Development Paper symposium, March 2023

“Development and Alteration of Rejection-related Brain Function in Adolescents”  
Research Seminar (Job Talk) at three universities, Jan-Feb 2023

“Affective neural functions and connectivity associated with risk and presence of depression in adolescents in Brazil”  
Invited talk, Korea University, July 2022

“Postdoc application and experience”  
Invited discussion, Korean Society of Cognitive and Biology Psychology  
February 2022

“The neural basis of adolescent development and individual differences in social behavior”  
Invited talk, Neuroscience Program, Michigan State University, January 2022

“Novel approaches for identifying and understanding risk for adolescent depression in a global context”  
Society for Research on Child Development Paper symposium, April 2021

“Typical and atypical socioemotional development: fMRI Investigations”  
Invited brownbag talk, UC Davis, Feb 2020

“How young and mature brains react to negative social evaluation?: Implications for mental illness and crime prevention”  
Invited symposium organizer, Neuroscience 2020 Conference, Japan, July 2020

#### **SELECTED CONFERENCE PRESENTATIONS**

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**Yoon L.**, Rohrsetzer R., Battel L., Anes M., Manfro P. H., Rohde L. A., Viduani A., Zajkowska Z., Mondelli V., Kieling C. \*, Swartz J. R. \* “Frontolimbic network topology associated with risk and presence of depression in adolescence: a study using a composite risk score in Brazil” The Flux Congress. September 2021, virtual conference.

**Yoon L.**, Rohrsetzer R., Battel L., Anes M., Manfro P. H., Rohde L. A., Viduani A., Zajkowska Z., Mondelli V., Kieling C. \*, Swartz J. R. \* “Reward- and Threat-Related Neural Activity Associated with Risk for Depression in Adolescents in Middle-Income Country” The Flux Congress. September 2020, virtual conference.

**Yoon L.**, Rohrsetzer R., Battel L., Anes M., Manfro P. H., Rohde L. A., Viduani A., Zajkowska Z., Mondelli V., Kieling C. \*, Swartz J. R. \* “Reward- and Threat-Related Neural Activity Associated with Risk for Depression in Adolescents in Middle-Income Country” University of California Global Health, May 2, 2020, virtual conference.

**Yoon, L.\***, Kim, K.\*, Jung, D., Kim, H. “Neural Mechanism of Impression Management during Self- and Friend- Evaluation under Social Observation” Organization of Human Brain Mapping. June 16-21, 2018, Singapore.

**Yoon, L.**, Kim, H. “Frontopolar Cortex Integrating Social Feedback History Contributes to Social Evaluative Decision Biases” The Flux Congress. September 8-10, 2016, St. Louis, USA.

**Yoon, L.**, Yoo, M., Ryu, J., & Park, S. “Explicit and Implicit Attitudes Toward Homosexuals.” Korean Society of Social and Personality Psychology. May 27, 2016, Seoul, Korea.

**Yoon, L.**, Kim, H. “Social evaluation bias due to social feedback in reciprocal evaluation task.” Korean Society of Cognitive and Biology Psychology. Jan 21-23, 2016, Jeju, Korea.

**NOT FUNDED GRANTS & APPLICATIONS**

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Neurodevelopmental correlates and mechanisms of rumination in adolescence, Not Funded (Impact Score: 34)  
 NIMH Pathway to Independence Awards (K99/R00)  
 Role: PI 2023

**HONORS AND AWARDS**

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**UC Davis Postdoctoral Scholar Association Travel Award** Feb 2021

**Excellent thesis and presentation award** Feb 2018  
 2nd Doctoral Colloquium of Korean Psychological Association

**TEACHING EXPERIENCE**

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Guest Lecture  
 “Stress, Brain Development, and Mental Health”  
 Stress, Adversity, & Resilience (HDE 133)  
 University of California, Davis October 2022

Guest Lecture  
 “Research Questions and Methods of Developmental Social Neuroscience”  
 Undergraduate course at Korea University October 2021

Guest Lecture  
 “The adolescent development of social-affective neural function and its relevance to risk for depression” Advanced Topic in Developmental Psychology (PSYC 6944),  
 Virginia Tech April 2021

Two-day fMRI data analysis workshop lecture

Brain Development, Psychopathology, and Mental Health Lab University of California, Davis	November 2019
Two-day fMRI data analysis workshop lecture Social and Decision Neuroscience Lab Korea University	August 2017
fMRI data analysis workshop lecture at MIDAS Information Tech	March 2017
PsychoPy and Implicit Association Test workshop lecture Korea University	January 2016
Teaching Assistant of Psychology and Decision Making	Fall 2015
Teaching Assistant of Introduction of Psychology	Fall 2015

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## RESEARCH SKILLS

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### Neuroimaging

Univariate task-based fMRI analysis, model-based fMRI analysis  
Task-based connectivity analysis, resting-state connectivity analysis, graph theory analysis

Structural MRI analysis

Tools: SPM, AFNI, CONN, Gretna, freesurfer

### Advanced Statistical Analysis

Multilevel modeling, computational modeling

Exploratory/Confirmatory factor analysis

Structural Equation Modeling (longitudinal path analysis, cross-lagged panel analysis, latent growth modeling)

### Programming

Matlab, R, Unix, python, Mplus

### Stimuli Presentation

E-prime, Cogent, Psychopy

### Others

Neuroimaging data collection of children and adolescents

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## OPEN SCIENCE CONTRIBUTIONS

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NeuroVault collections:

Yoon et al., 2018 <https://neurovault.org/collections/3972/>

Yoon\*, Kim\* et al., 2021 <https://neurovault.org/collections/BJOVOATN/>

Yoon et al., 2021 <https://neurovault.org/collections/PKTUFVTY/>

OSF code and task stimuli:

Yoon et al., 2018 <https://osf.io/hu2sy/>

**PROFESSIONAL AFFILIATIONS / SERVICE**

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Member of

Flux Society (Developmental Cognitive Neuroscience Society)  
SANS (The Social & Affective Neuroscience Society)  
SAS (Society for Affective Science)  
IMBES (International Mind, Brain, and Education Society)

Trainee Committee (2020-2022) of Flux

Grant writing workshop organization for Flux 2022

Social media account management for Flux 2021

Abstract review of SAS 2023 (reviewed 13 abstracts)

Grant review for Association for Psychological Science (APS) 2023 Student Grant Competition (reviewed 1 grant)

**AD HOC REVIEW**

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**Developmental psychology journal:**

Child Development, Journal of Child Psychology and Psychiatry, Journal of Clinical Child and Adolescent Psychology, Child Neuropsychology, Developmental Psychology

**Neuroscience journal:**

Cerebral Cortex, Human Brain Mapping, Neuroscience & Biobehavioral Reviews

**Clinical psychology journal:**

Emotion, Psychological Medicine, Frontiers in Psychiatry (Review Editor)

**Broad scope journal:**

Nature Communications, Scientific Reports, PLOS ONE, Frontiers in Psychology, Journal of Happiness Studies

**REFERENCES**

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**Amanda E. Guyer, Ph.D.**

Postdoc advisor

Professor

Human Development and Family Studies

University of California, Davis

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**Johnna R. Swartz, Ph.D.**

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