NaEun Oh

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RESEARCH INTERESTS

Social-affective psychology & neuroscience, Emotion perception and expression, Social interactions, Dynamic understanding of the natural world, Computational models, Translational research to psychopathology

EDUCATION

2018-2020 M.A., Seoul National University, Republic of Korea

Psychology, Advisor: Dr. Jeanyung Chey, GPA 4.05/4.3

2016 6-month Exchange Program at Pennsylvania State University, USA.

2014-2018 B.A. & B.S.E., Sogang University, Republic of Korea

Psychology & Convergence Software, Magna Cum Laude, GPA 3.71/4.3

RESEARCH EXPERIENCE

2018-2020 Research Assistant at Clinical Neuroscience Lab

Seoul National University, ROK. PI: Dr. Jeanyung Chey Received student funding (\$10,200)

Projects:

Korean Social Life, Health, and Aging Project

Co-lead three studies of the multi-year project collaborating with research groups of social science and medical fields. Designed and organized experiments of fMRI, cognitive assessment, psychosocial surveys, and social network surveys. Collected and analyzed data. Served as major contributor for the writing of manuscripts including master's dissertation.

The Effect of Social Isolation on Late-life Brain Aging Risk: The Interactive Model between Neural Response and Inflammatory Gene Expression.

Co-lead collaborative work with the Center of Happiness Studies at SNU. Designed and organized experiments of fMRI, inflammatory RNA and markers, and psychosocial factors.

2016 1-month Intensive Research Internship at Cognitive Computational Neuroscience Lab

Sungkyunkwan University, ROK. PI: Dr. Choong-wan Woo

Trained in neuroimaging research. Developed behavioral experiment on pain rating and performed poster presentation at Cognitive Neuroscience Symposium, IBS Center for Neuroscience Imaging Research.

Poster : A Pilot Study on a Semicircular Pain Rating Scale

2016-2017 5-month Research Assistant at Behavioral Psychology Lab

Yonsei University, ROK . PI: Dr. Kyong-Mee Chung

Participated in lab meetings for a project on developing cognitive behavioral therapy application for cancer survivors.

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PROFESSIONAL EXPERIENCE

2021 Product Manager at Digital Healthcare Company

Mindhub Inc., ROK.

Project:

Virtual Reality based Cognitive-Speech Rehabilitation System for Stroke Patients In cooperation with speech-language pathologists and VR engineers, developed an immersive VR environment where stroke patients exercise speech-language and cognitive skills with supporting tools of personalized training algorithm and automated reports. Led a government funded project and took on responsibilities defining vision and roadmap, developing contents, and presenting results on demo day (https://youtu.be/vgOEY0dL73s?t=4455).

PUBLICATIONS

Poster

Oh, N., Kwak, S., Kim, H., & Chey, J. (2019). P3-337: Systemic Inflammation Accelerates Age-related Disintegration of Cognitive Control Networks. *Alzheimer's & Dementia*, *15*, P1071-P1071. https://doi.org/10.1016/j.jalz.2019.06.3369.

Oh, N., Kim, H., Kwak, S., and Chey, J. (2018). Education Moderates the Relationship between Subjective Cognitive Decline and Inflammation in Older Adults. *Korean Clinical Psychology Association.*

Master's Thesis

Naeun Oh. (2020). Neural Pattern Signature of Social Exclusion Predicts Loneliness in Older Adults. (in prep)

The study investigates the neural basis of experiencing social exclusion and verifies loneliness-related individual differences in behavioral and neural patterns in older adults.

CONFERENCES & WORKSHOPS

- **2021** Neuromatch Academy 2021 Workshop on Deep Learning **Project:** *Building a Controller in Model-free and Model-based RL in Two-step Task*
- **2021** Neuromatch Academy 2021 Workshop on Computational Neuroscience **Project :** *The Hierarchical Architecture of the Visual Cortex and DNN*
- **2019** Alzheimer's Association International Conference **Poster:** Systemic Inflammation Accelerates Age-related Disintegration of
 Cognitive Control Networks
- **2019** Korean Human Brain Mapping Summer School, OHBM Korea Chapter Program. Workshop on brain analysis methods.
- 2019 International Neuropsychological Society 47th Annual Meeting in NYC
- **2018** Korean Clinical Psychology Association Fall Conference **Poster:** Education Moderates the Relationship between Subjective Cognitive Decline and Inflammation in Older Adults
- **2017** Cognitive Neuroscience Symposium, IBS Center for Neuroscience Imaging Research.

Poster : A Pilot Study on a Semicircular Pain Rating Scale

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SCHOLARSHIPS

2019 Conference travel grant, Seoul National University. For Alzheimer's Association International Conference 2019. \$1500.

2017 Samsung Convergence Software Course Scholarship, Sogang University. \$2000.

2015-2017 Work Scholarship assisting coursework and studies for students with disabilities, Sogang University. \$860.

2015 Academic Scholarship, Sogang University. \$600.

PROFESSIONAL AFFILIATIONS

2020-Present Student member of the Social & Affective Neuroscience Society
 2018-Present Student member of the Korean Psychology Association,
 Korean Clinical Psychology Association

SKILLS

Software Python, Anaconda, Spyder, JupyterNotebook for experiment design and

implementation, fMRI analysis, statistical modelling, machine learning, deep

learning, visualization

MATLAB (SPM12, CONN) for fMRI analysis, visualization RStudio (stan) for statistical modelling including Bayesian

Git for code version control

Google Cloud Platform for heavy load computing

Clinical Skills Clinical assessment (MMSE, K-DRS, WAIS-IV, EMS, MMPI-2, Rorschach, SCT)

Psychotherapy training

Cognitive Behavioral Therapy (Supervisor: Dr. Sumi Park)

Group Therapy with Interpersonal Approaches (Supervisor: Dr. Soohyun Ra)

Management Slack, Dropbox, Google Drive, Google Colab

Languages Korean(native), English(fluent), Chinese(basic)

LEADERSHIP & SERVICE

2016-2017 Member of Undergraduate Psychology Association, Sogang University.

2014-2016 Officer role of Korean folk-percussion band, Sogang University.

2014-2015 Volunteer of mentoring program for high school students, Gyeonggi Province Youth Volunteer Center & Daegun Youth Association.

2014 1-month Volunteer work in the Philippines, conducting research on the lives of Typhoon victims to provide insights for government policies on improving their quality of life.

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REFERENCES

Dr. Jeanyung Chey, PhD.

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Phone: (+82)2-880-6432 Email: jychey@snu.ac.kr Dr. Choongwan Woo, PhD.

Sungkyunkwan University

Assistant Professor, Department of Biomedical Engineering

Center for Neuroscience Imaging Research, Institute for Basic Science

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