

# NaEun Oh

Email : [nadyaoh5@gmail.com](mailto:nadyaoh5@gmail.com)  
GitHub : <https://github.com/naeunoh>  
Website : <https://naeunoh.github.io/>  
Phone : +82-10-5006-9705

## RESEARCH INTERESTS

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Social-affective psychology & neuroscience,  
Dynamic understanding of the natural world, Emotion, Social interactions,  
Translational research to psychopathology (anxiety, depression, personality disorders)

## EDUCATION

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**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

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**2018-2020 Research Assistant at Clinical Neuroscience Lab**

Seoul National University PI: Dr. Jeanyung Chey

Received student research funding (\$10,200)

**Project : Korean Social Life, Health, and Aging Project**

Co-lead three studies of the multi-year project collaborating with research groups of psychology, sociology, and medical fields. Designed and organized fMRI experiments, cognitive assessments, psychosocial surveys, and social network surveys. Collected and analyzed data. Served as major contributor for the writing of manuscripts.

**Master's Dissertation :**

*Neural Pattern Signature of Social Exclusion Predicts Loneliness in Older Adults.*

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

**Project : 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 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.

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

Yonsei University      PI: Dr. Kyong-Mee Chung

Participated in research and technical development stages of the project on cognitive behavioral therapy applications for cancer survivors.

## **PROFESSIONAL EXPERIENCE**

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### **2021 Product Manager at Digital Healthcare Company**

Mindhub Inc.

**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/ygOEY0dL73s?t=4455>).

## **PUBLICATIONS**

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**Oh, N.,** Kim, H., Kwak, S. Park, H., Youm, Y., & Chey, J. (in prep). Neural Pattern Signature of Social Exclusion Predicts Loneliness in Older Adults.

Lee, S. H., Chey, J., Ahn, W. Y., Woo, C. W., Youm, Y., Kim, H., **Oh, N.,** Park, H., Gim S., Lee E., & Choi, I. (2022). Psychological well-being and salivary markers of inflammation: The moderating effect of age. *Applied Psychology: Health and Well-Being*.

## **CONFERENCE PRESENTATIONS**

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**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>. Alzheimer's Association International Conference.

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

**Oh, N.,** Kang, J., & Woo, C. (2017). A Pilot Study on a Semicircular Pain Rating Scale. Cognitive Neuroscience Symposium, IBS Center for Neuroscience Imaging Research.

## **AWARDS AND HONORS**

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**2019** Conference Travel Grant for Alzheimer's Association International Conference 2019, Seoul National University.

**2017** Samsung Convergence Software Course Scholarship, Sogang University.

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

**2015** Academic Scholarship, Sogang University.

## WORKSHOPS

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- 2022** Naturalistic Data Analysis Tutorial, OHBM 2020 Educational Workshop  
**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** Korean Human Brain Mapping Summer School, OHBM Korea Chapter Program.  
Workshop on brain analysis methods.  
**2019** International Neuropsychological Society 47th Annual Meeting in NYC

## PROFESSIONAL MEMBERSHIP AND SERVICE

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- 2020-present** Social & Affective Neuroscience Society  
**2018-present** Korean Psychology Association, Korean Clinical Psychology Association  
**2016-2017** Undergraduate Psychology Association, Sogang University.  
**2014-2015** Mentor for high school students, Gyeonggi Province Youth Volunteer Center & Daegun Youth Association.  
**2014** 1-month Volunteer work, conducted field research to provide insights for government policies on improving quality of life of typhoon victims in the Philippines, AJCU-AP.

## SKILLS

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- 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 Colab
- Languages** Korean(native), English(fluent), Chinese(basic)