Min Sung **Seo**

PhD Student · Cognitive Neuroscience

University of North Carolina at Chapel Hill, Dept. of Psychology Neuroscience
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"It's me."

Education

The University of North Carolina, Chapel Hill

Ph.D. in Cognitive Psychology — *Expected May 2025*

- *Advisor*: Kelly S. Giovanello, Ph.D.

The Pennsylvania State University, University Park

B.S. in Psychology, Neuroscience Option — *August 2014 - May 2020*

- Cumulative GPA: 3.95 , Major GPA: 3.98

Honors & Awards

2021	**Departmental Nominee**, The Graduate Education Advancement Board Impact Award	*UNC - Chapel Hill*
2020	**Graduated with Honors**, *Magna cum laude*	*Penn State*
2014-2020	**Recipient**, Dean's List	*Penn State*
2019	**Awardee**, College of Liberal Arts Undergrad Research Funding Award, $1000	*Penn State*
2019	**Awardee**, College of Liberal Arts Undergrad Research Funding Award, $1500	*Penn State*
2015	**Awardee**, The President's Freshman Award	*Penn State*

Oral Presentation

- **Seo, M.** (April 2021). *Multifeatural encoding in aging*. Talk given at the Cognitive Lecture Series at UNC, Chapel Hill.

Poster Presentation

- Chang, W., Langella, S., Huynh, K., **Seo, M.**, Yap, P., Lin. W., Giovanello, K. S. (2022). Investigation of brainwide functional networks associated with hippocampal subfields during memory encoding and retrieval using fMRI with 1-mm isotropic resolution. Poster submitted to the Joint Annual Meeting ISMRM-ESMRMB ISMRT, London, England, UK.
- Gerver, C. R., Overman, A. A., Cowan, J., Jenkins, C., Kautz, B., Long, M., **Seo, M.**, Dennis, N. A. (2020). Manipulating associative encoding strategy impacts neural discriminability at encoding and retrieval. Poster presented virtually at the Cognitive Neuroscience Society Annual Meeting, Boston, MA.

Research Experience

Cognitive Neuroscience of Memory Lab (*PI: Kelly S. Giovanello, Ph.D.)* — *UNC - Chapel Hill*

Graduate Student — *Aug 2020 - Current*

- **Lifespan study investigating age related alterations in hippocampal subfield to cortical network functional brain connectivity:** Modified the mnemonic similarity task (MST) for use in whole-brain, high resolution fMRI (3T) to investigate hippocampal subfield function and connectivity with cortical regions during pattern separation processes. Currently collecting data.
- **Hippocampal subfield contributions to associative to associative memory:** Data collection and analyses on an associative memory task for use in whole-brain, high-resolution fMRI (7T) study to investigate hippocampal subfield function and connectivity with cortical regions during (a) discrimination and match detection processes and (b) associative encoding and retrieval. Currently collecting additional data.
- **Multifeatural episodic memory encoding in aging:** Data analyses on an existing dataset from a neuroimaging (fMRI) study incorporating a memory encoding task where source features vary independently on two intrinsic dimensions. Age-related differences in whole-brain activation and functional connectivity between ROIs during successful memory encoding were investigated. Finished data analyses and currently under writing for manuscript.

Cognitive Aging and Neuroimaging Lab (*PI: Nancy A. Dennis, Ph.D.)* *Penn State*

Research Assistant *Aug 2018 - May 2020*

- **Role of unitization in successful encoding of two pieces of information:** Data collection and preprocessing (imaging data) on an associative memory task utilizing a unitizing strategy to test unitization's effect on later memory retrieval in younger and older adults.
- **Influence of shcemas on memory for non-shcematic information in younger and older adults:** Data collection on a novel scene memory task paradigm to investigate age-related differences in the influence of schemas on memory for non-schematic information.
- **Effect of culture in associative memory:** Data collection on an associative memory task to investigate the effect of culture on associatve memory.

Center for Language Science (*(Primary Advisor: Melinda Fricke, Ph.D.)* *Penn State*

Research Assistant *Jan 2016 - May 2016*

- **Differences in task switching during English-Spanish cognates and non-cognates:** Data collection using EEG and recording of English-Spanish bilinguals to identify differences in neural processes between English-Spanish cognates and non-cognates during L1 - L2 switching.

Teaching Experience

Instructional Assistant *UNC - Chapel Hill*

- NSCI 175: Introduction to Neuroscience
- NSCI 225: Sensation and Perception