

SUNGJOON PARK 박성준

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EDUCATION

Texas A&M University, College Station, Texas December 2022
Master of Science in Psychological Sciences with Thesis

University of Waterloo, Ontario, Canada June 2020
Bachelor of Arts in Psychology, with Thesis, Minor in Philosophy & Cognitive Science

RESEARCH EXPERIENCE

Spatial Thinking & STEM Learning Lab, Texas A&M University 2020 - 2023
PI: Dr. Heather Burte
Roles: Graduate Assistant & Researcher

- *Master's Thesis*: Relationship between Perspective Taking with Space and People.
 - Designed and conducted research to examine the use of perspectives in both spatial and social contexts.
 - Collected and analyzed online and in-person survey and behavioral data.
 - Data wrangling and visualization.
 - Conducted statistical analyses with correlations, linear regression, and mixed effects models.
 - Conducted literature review. Reading and summarizing past research studies to formulate new hypotheses and research questions.
 - Used Unity to create virtual environment for study stimuli.
 - Led and managed up to two research assistants. Delegating tasks, mentoring, and giving feedback.
 - Gave spoken and poster presentations in conferences and university.
 - R Scripts, figures, and manuscript available on GitHub.
- Assisted in research into human directional orientation ability.
- Assisted in formulation of discussion topics and experiments for a Human Cognitive Processes course as part of a Presidential Transformational Teaching Grant project.
- Involved in recruitment, management, training and evaluations of research assistants.

Human Brain Processes During Complex Locomotor Navigation, Texas A&M University 2021 - 2022
PI: Dr. Andrew Nordin & Dr. Heather Burte
Roles: Graduate Researcher

- The project focused on developing a synchronized mobile EEG and eye tracking system to research brain processes during complex locomotor navigation.
- Research into how the brain is able to process information for navigating complex terrain.
- Development of new methods for wirelessly measuring human brain and body dynamics during motion.
- Learned to operate gait (human motion) research hardware & software (Motek) and analysis pipeline.
- Directed and trained 3 undergraduate research assistants to develop experiments using the Python programming language and the Psychopy package.
- Involved in the recruitment process of research assistants.

Britt Anderson Group, University of Waterloo 2018 - 2020
PI: Dr. Britt Anderson
Roles: Research Assistant, Undergraduate Researcher

- *Undergraduate Thesis*: Mental Model Updating and Pupil Response.
 - Designed and conducted research on pupillary response to belief change.
 - Programmed computerized eye tracking task using Python and the psychopy library.
 - Self-driven to learn how to program (R & Python) and use the Linux computing environment.
 - Took initiative to self-learn and use niche eye-tracking and monitor hardware.
 - R & Python codes, and manuscript available on GitHub.
- Assisted in two projects that contributed to Master's theses.

TEACHING EXPERIENCE

Texas A&M University

2021 - 2022

Graduate Teaching Assistant, 4 Semesters

- I assisted and instructed labs for undergraduate psychology statistics, research methods, and scientific writing courses.

Lab Trainer, 3 Semesters

- Trained, up to 9, undergraduate research assistants per semester in a research lab on how to use R and RStudio.
- Students learned to produce descriptive statistics, visualizations, and conduct correlation, t-tests, and ANOVA tests.

SKILLS

Programming: R, Python, C++

Software & Tools: Linux, CLI, git, SQL, SPSS, Microsoft Office, Qualtrics, \LaTeX , Tableau, Power BI

Statistics: Regression (linear, generalized, multiple, hierarchical), Structural Equation Modeling (CFA), Mixed Effects Model, Common Statistical Tests (Correlation, t-test, ANOVA), Cluster Analysis, Descriptive Statistics

Hardware: **Eye Tracking:** CRS Ltd. LiveTrack, SR Research EyeLink 1000 Plus

Gait Tracking: Motek M-Gait

Languages: English, Korean

PUBLICATION

Park. S., Watanabe. B., Burte. H., (2022). Perspective taking and reference frames for spatial and social cognition. *Paper submitted to the CogSci 2022 Annual Conference.*

PRESENTATION

Park. S., Watanabe. B., Burte. H., (2022). Is Mentalizing Related to Spatial Perspective-Taking? *Poster presented at the Psychonomic Society 2022 Annual Meeting.*

Park. S., Watanabe. B., Burte. H., (2022). Perspective taking and reference frames for spatial and social cognition. *Poster presented to the CogSci 2022 Annual Conference.*

Nutalapati. N., Raina. Y., Watanabe. B., **Park. S.**, & Burte. H., (2022). How well do you know your campus? A pilot study examining the relationship between anxiety and spatial ability. *Poster presented at the Texas A&M University Student Research Week 2022.*

Park. S., Watanabe. B., Burte. H., (2021). Individual Differences in Perspective Taking for Spatial And Social Cognition. *Poster presented at the Psychonomic Society 2021 Annual Meeting.*

Park. S., Watanabe. B., Burte. H., (2021). Reference Frames for Spatial and Social Thinking: Individual Differences in Strategy Use. *Poster presented at the SPATIAL COGNITION 2020/1 Conference.*

Park. S., Watanabe. B., Burte. H., (2021). Being good at taking people's spatial perspective might not necessarily mean you are good at "taking their perspective". *Poster presented at the Texas A&M University Psychological and Brain Sciences: 2nd Year (Ph. D) Poster Session 2021.*

Deshpande. T., **Park. S.**, Burte. H., (2021). Pointing North Online: Using photographs of known environments to evaluate north pointing accuracy. *Poster presented at the CogSci 2021 Annual Conference.*

Park. S., Anderson. B., (2020). Mental Model Updating and Pupil Response. *Poster presented at the Virtual Psychonomics 2020 Annual Meeting.*

WORK AUTHORIZATION

Eligible to work in the U.S. without sponsorship for 36 months with Optional Practical Training (OPT) & STEM Extension. Expires: 01/30/2026.