June 2026

# Samuel M. Maione

smaione1@jh.edu | https://sammaione.github.io/

## EDUCATION

**Binghamton University** *Binghamton, NY*
*Thesis advisor:* Peter Gerhardstein *May 2023*
BSc in Integrative Neuroscience | Sociology (Minor)

## RESEARCH EXPERIENCE

**Laboratory Technician / Manager** *Johns Hopkins University*
Look, Infer, Understand (LIU) Lab *July 2023 - Present*
*Principal Investigator*: Shari Liu

- Mentored part-time research staff during their own fMRI analysis
- Created lab standard for fMRI analysis pipeline (based in Python, Jupyter, Bash)
- Created lab standard for looking time analysis using computer vision (based in Python, Jupyter, Bash)
- Created IRB protocols for fMRI, behavioral testing, and developmental studies
- Managed lab budget and reimbursement procedures for all members of the lab
- Organized lab events, inventory, project board, and lab manual
- Presented research at lab meetings (both within and outside our department)

**Research Assistant** *Binghamton University*
Binghamton Baby Lab *Jan 2022 - June 2023*
*Principal Investigator*: Peter Gerhardstein

- Led partnership with Victoria Pelak (University of Colorado) and Peter Gerhardstein to create a novel survey to characterize the psychological and epidemiological profile of visual snow syndrome
- Completed an honors thesis and earned the Undergraduate Research Award and Steven W. Kovacs Memorial Award for my commitment to psychological research
- Ran in-person experiments with adults and children (aged 3 to 9 years)
- Programmed studies for EEG (using Matlab), eye tracking (using EPrime), and behavioral experiments (in PsychoPy)

## PUBLICATIONS

**Maione, S. M.**, & Liu, S. (In revision). Distinct and shared neural resources between processing of dynamic physical objects and spatial working memory. [OSF]

Kim, M., **Maione, S. M.**, & Liu, S. (Submitted). Shared neural representations of barriers to agents' actions and objects' motions. [Pre-print]

**Maione, S. M.**, Pelak, V. S., & Gerhardstein, P. (2025). Assessment of a Novel Patient Reported Outcome Measure for Visual Snow Syndrome: The Colorado Visual Snow Survey 2.0. *Frontiers in Neurology*, *16*, 1664310. [OSF] [Paper]

## CONFERENCE PRESENTATIONS

**Maione, S. M.**, Drissi, A., Liu, K., Kim., Liu, S. (2026). Social objects: Tracking agents relies on neural resources associated with dynamic social and physical processing. *Society for Philosophy and Psychology*, Baltimore, MD. [Poster].

**Maione, S. M.**, & Liu, S. (2024). Frontoparietal regions engaged in physical prediction are also involved in spatial working memory. *Conference on Cognitive Computational Neuroscience*, Boston, MA. [Conference abstract]. [Poster].

Kim, M., **Maione, S. M.**, Drissi, A., Liu, S. (2024). Cortical regions preferentially engaged during social and physical processing represent obstacles to agent action and object motion. *Conference on Cognitive Computational Neuroscience*, Boston, MA. [Conference abstract].

**Maione, S. M.**, Gerhardstein, P. (2023). Perception through Visual Snow Syndrome: Faces, Scenes and Self-Reported Symptoms. *Binghamton University Psi Chi Fair*, Binghamton, NY. (**Undergraduate Research Award**).

**Maione, S. M.**, Duggan, N., Gerhardstein, P. (2022). Changing Orientation Anisotropy Influenced by the Digital Age. *Binghamton University Psi Chi Fair*, Binghamton, NY.

## HONORS/AWARDS

| | |
|---|---|
| **2023** | Steven W. Kovacs Memorial Award |
| **2023** | Binghamton University Undergraduate Research Award |
| **2022** | Dr. Dominick A. and Susan G. Artuso Scholarships |

## SERVICE

**Emerging Leaders Program Mentor** *Binghamton University*
*Supervisor*: Tyler Lenga *May 2022 - May 2023*

- Provided a 90-minute, structured, weekly space for 13 newly matriculated students to develop professional skills and become acclimated to college life
- Led a partnership with the Binghamton Rescue Mission, a homeless shelter, and created care packages and presentations for residents

**Supplemental Instruction Leader** *Binghamton University*
*Program Supervisor:* Lauren Morris *Aug 2021 - May 2023*
*Faculty Supervisor*: Brittany Race

- Created 60-minute, structured, weekly review sessions for an introductory psychology lecture, with attendance ranging from 20-135 students per session
- Connected students with campus resources and specific faculty to help students foster research experience and professional development