Sophia Vinci-Booher

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as of April 8, 2021

Education

Ph.D. Psychology & Neural Science, Indiana University, Bloomington, Indiana

B.S. Biomedical Engineering, Purdue University, IUPUI Campus, Indianapolis, Indiana

B.A. French, Indiana University, IUPUI Campus, Indianapolis, Indiana

Positions

2019 – *present*	NSF Postdoctoral Fellow, *Dept. of Psychological & Brain Sciences*, PI: F. Pestilli, Indiana University & University of Texas at Austin
2013 – 2019	Graduate Research Assistant, *Dept. of Psychological & Brain Sciences*, PI: K.H. James, Indiana University, Bloomington, IN
2011 – 2013	Neuropsychology Technician, *Dept. of Neurology & Neuropsychology*, PI: B. McDonald, Indiana University Health Physicians, Indianapolis, IN
2010 – 2013	Staff Research Assistant, *Dept. of Medical & Molecular Genetics*, PI: T. Foroud, Indiana University, School of Medicine, Indianapolis, IN
2010 – 2011	Staff Research Assistant, *Dept. of Neurology*, PI: E. Sowell, University of California, Los Angeles, CA
2009 – 2010	Undergraduate Research Assistant, *Dept. of Anthropology*, PI: R. Ward, Indiana University, Indianapolis, IN
2007 – 2010	Undergraduate Research Assistant, *Dept. of Anatomy & Cell Biology*, PI: F. Zhou, Indiana University, School of Medicine, Indianapolis, IN
2006 – 2007	Undergraduate Research Assistant *Dept. of Computer Engineering*, PI: E. Yingzi Du, Purdue University, Indianapolis, IN

Publications

Peer reviewed publications. *Trainees that I directly mentored are underlined.*

1| **Vinci-Booher, S.**, James, T.W., & James, K.H. (2021). Visual-motor contingency during symbol production contributes to the development of the neural systems supporting symbol perception and concurrent gains in symbol recognition. *NeuroImage*, *227*, 117554.

2| **Vinci-Booher, S.**, & James, K.H. (2020). Visual experiences of letter production contribute to the development of the neural systems supporting letter perception. *Developmental Science, 23*(5), 1-17. (**Cover article.**)

3| Merritt, E., Swain, S., **Vinci-Booher, S.**, & James, K.H. (2020). Constraining stroke order during manual symbol learning hinders subsequent recognition in children under 4 ½ years. *Frontiers in Psychology, 11*.

4| **Vinci-Booher, S.**, & James, K.H. (2020). Ecological validity of experimental set-up affects parietal involvement during letter production. *Neuroscience Letters, 731.*

5| **Vinci-Booher, S.**, Cheng, H., & James, K.H. (2019). An analysis of the brain systems involved with producing letters by hand. *Journal of Cognitive Neuroscience, 31*(1), 138-154.

6| **Vinci-Booher, S.**, Sturgeon, J., James, T., & James, K.H. (2018). The MRItab: An MR-compatible touchscreen with video-display. *Journal of Neuroscience Methods,* 306, 10-18.

7| Zemlock, D., **Vinci-Booher, S.**, & James, K.H. (2018). Visual-motor symbol production facilitates letter knowledge in young children. *Reading and Writing*, 31, 1255-1271.

8| **Vinci-Booher, S.,** James, T. W., & James, K. H. (2016). Visual-motor functional connectivity in preschool children emerges after handwriting experience. *Trends in Neuroscience and Education*, *5*(3), 107-120.

9| **Vinci-Booher, S.**, & James, K. H. (2016). Neural substrates of sensorimotor processes: Letter writing and letter perception. *Journal of Neurophysiology, 115*(1), 1-4.

10| Foroud, T., Wetherill, L., **Vinci-Booher, S.**, Moore, E.S., Ward, R.E., Hoyme, H.E., et al. (2012). Relation over time between facial measurements and cognitive outcomes in alcohol exposed children. *Alcoholism: Clinical & Experimental Research,* 36(9), 1634-1646.

11| Anthony, B., **Vinci-Booher, S.**, Wetherill, L., Ward, R.E., Goodlett, C., & Zhou, F.C. (2010). Alcohol induced facial dysmorphology in C57BL/6 mouse models of fetal alcohol spectrum disorder. *Alcohol,* 44(7-8), 659-671.

Book chapter.

12| James, K.H., **Vinci-Booher, S.**, & Muñoz-Rubke, F. (2017). The impact of multimodal-multisensory learning on human performance and brain activation patterns. In S. Oviatt, B. Schuller, & Cohen, P. (Eds.), *Handbook of Multimodal-Multisensor Interfaces*. San Rafael, CA: Morgan & Claypool Publishers.

Conference proceedings and publications.

13| Fang, S., Liu, Y., Huang, J., **Vinci-Booher, S.**, Anthony, B., & Zhou, F.C. (2010). Surface feature analysis using video volumes of mouse embryos for fetal alcohol syndrome classification. *International Conference on Digital Image Computing: Techniques and Applications* (pp. 22-26). Sydney, Australia: Institute of Electrical and Electronics Engineers. (57% acceptance rate).

14| Fang, S., Liu, Y., Huang, J., **Vinci-Booher, S.**, Anthony, B., & Zhou, F.C. (2009). Facial image classification of mouse embryos for the animal model of fetal alcohol syndrome. *Symposium on Applied Computing* (852-856). Hawaii: Association for Computing Machinery. (29% acceptance rate).

15| Belcher, C., Terry, M., **Vinci-Booher, S.**, & Du, Y. (2007). Video image based multimodal face recognition system. *Illinois-Indiana Section Conference* (paper 14-1-10). Indiana: American Society for Engineering Education.

Manuscripts in progress.

Vinci-Booher, **S.**, Caron, B., Bullock, D., James, K.H., & Pestilli, F. *Development of white matter tracts between and within the dorsal and ventral streams*. Manuscript under review. Preprint available here: https://www.biorxiv.org/content/10.1101/2021.01.27.428423v1.

Hayashi, S., Caron, B., **Vinci-Booher**, **S.**, et al. & Pestilli, F. *brainlife.io: Democratizing neuroimaging research*. Manuscript in preparation.

Vinci-Booher, **S.**, & Pestilli, F. *White matter and learning, a review*. Manuscript in preparation.

Photiou, M., **Vinci-Booher**, **S.**, Konstantinou, N., Avraamides, M.*, & Pestilli, F*. *Dancing and the white matter pathways in the brain*. Manuscript in preparation. *Shared senior author.

Vinci-Booher, **S.**, Schlichting, M., Preston, A.*, & Pestilli, F*. *Microstructural development of hippocampal subfields*. Manuscript in preparation. *Shared senior author.

Cheng, H., **Vinci-Booher, S.**, Caron, B., Wang, J., Newman, S., & Pestilli, F. *Denoising diffusion-weighted magnetic resonance data using convolutional neural networks*. Manuscript in preparation.

Vinci-Booher, S., Sehgal, N., & James, K.H. *Visual and motor experiences of handwriting result in visual recognition gains*. Manuscript in preparation.

Vinci-Booher, S., & James, K.H. *The development of the neural systems supporting letter production*. Manuscript in preparation.

Intellectual Property

"Electronic tablet for use in functional MRI," *US Patent No. 10,820,839B2*, November 3, 2020, Sturgeon, J., Shroyer, A., **Vinci-Booher, S.**, & James, K.H.

Grants

Active.

Title: Harnessing machine learning and cloud computing to test biological models of the role of white matter in human learning, 2004877
Source: National Science Foundation
Program: SBE Postdoctoral Research Fellowship
Location: Indiana University
Amount: $138,000
Dates: 8/2020 – 7/2022
PI: S. Vinci-Booher, sponsored by F. Pestilli

Title: Development and validation of a visual field mapping protocol for children
Source: Indiana Clinical and Translational Sciences Institute
Program: Core Pilot Grant
Location: Indiana University
Amount: $10,000
Dates: 8/2020 – 7/2021
Co-PIs: S. Vinci-Booher, F. Pestilli

Inactive.

Title: MR-safe electronic tablet for use in functional MRI
Source: Johnson Center for Innovation and Translational Research
Program: Translational Research Pilot Grant
Location: Indiana University
Amount: $25,000
Dates: 8/2017 – 7/2019
Co-PIs: S. Vinci-Booher, J. Sturgeon, K.H. James

Title: Digital analysis of letters and numbers handwritten by preschool children
Source: Indiana University
Program: Groups STEM Summer Research Experience, Mentorship Grants
Location: Indiana University
Amount: $1,000
Dates: 5/2017 – 8/2017
Co-PIs: S. Vinci-Booher, K.H. James

Title: Letter writing and the development of letter perception
Source: Indiana University Imaging Research Facility
Program: Graduate Student Brain Scan Credit Program
Location: Indiana University
Amount: 100 hours of MRI scanning
Dates: 5/2014 – 8/2016
Co-PIs: S. Vinci-Booher, K.H. James

Fellowships, Honors, & Awards

Awards.

2019	Federation of Associations in Behavioral & Brain Sciences (FABBS) Doctoral Dissertation Research Excellence Award
2019	J.R. Kantor Graduate Award for Distinction in Research
2015	Commendation on Doctoral Qualifying Examinations
2014	Poster winner at Center of Excellence for Women in Tech. Conference

Fellowships.

2019	Developmental Training Grant, postdoc, NIH: 5 T32 HD007475
2018	Dissertation Research Fellowship, IU College of Arts & Sciences
2017, 2020	IU-OVPR Emerging Area of Research Initiative, Learning: Brains, Machines and Children
2014 – 2016	Developmental Training Grant, predoc, NIH: 2 T32 HD007475
2015	James S. McDonnell Foundation Fellowship
2006	Multidisciplinary Undergraduate Research Initiative Scholar

Merit-based scholarships.

2009	International Experience Scholarship
2009	Margaret A. Cook Scholarship for Foreign Study

2009	Marius J. Fauré Scholarship for Students of French Language/Literature
2007	Commitment to Engineering Excellence Scholarship

Travel awards.

2021	V-VSS Elsevier/Vision Research Travel Award
2020	Travel and Accommodations for NeuroHackademy (postponed to 2021)
2019	Cognitive Development Society (CDS) Pre-Conference Travel Award: Open Developmental Science
2019	Advanced Computational Neuroscience Network (ACNN) Big Data Neuroscience Conference Travel Award
2017 – 2019	IU-OVPR Travel Award for Women in Science
2015 – 2019	Program in Neuroscience College of Arts & Sciences Travel Award

Oral Presentations

Invited talks.

1| **Vinci-Booher, S.** (2021, April). The relationship between white matter microstructure and perceptual learning that generalizes across tasks. Oral presentation presented in the Cognitive Neuroscience Seminar at the University of Texas at Austin, TX, USA.

2| **Vinci-Booher, S.** (2019, November). Development of vertical white matter pathways connecting dorsal and ventral visual streams. Oral presentation presented at the Brain and Mind Institute at the University of Western Ontario, ON, CA.

3| **Vinci-Booher, S.** (2018, February). The Development of Brain Systems Supporting Handwriting and Letter Perception. Oral presentation at the Psychological and Brain Sciences Graduate Recruitment Event at Indiana University, Bloomington, IN, USA.

4| **Vinci-Booher, S.** (2017, October). The Developmental Trajectory of Brain Systems Supporting Handwriting and the Perception of Handwritten Letters. Oral presentation at the Neuroscience Seminar at Loyola University, Chicago, IL.

5| **Vinci-Booher, S.** (2016, October). Brain Systems Supporting Handwriting and Letter Perception Across Development. Oral presentation at the Psychological and Brain Sciences Alumni Homecoming & Award Banquet at Indiana University, Bloomington, IN, USA.

Conference talks.

6| **Vinci-Booher, S.,** Caron, B., Bullock, D., James, K.H., & Pestilli, F. (2021, May). A model of the development of major white matter pathways within and between ventral and dorsal visual streams. Oral presentation to be presented at the Annual Meeting of the Vision Sciences Society, Virtual Meeting.

7| **Vinci-Booher, S.,** & Pestilli, F. (2020, October). Developmental differences in white matter tracts between and within the dorsal and ventral streams. Oral presentation at the Neuromatch 3.0 Conference. Virtual conference. https://www.youtube.com/watch?v=1-IY3QocpH0

8| **Vinci-Booher, S.,** & Pestilli, F. (2020, September). Posterior-vertical white matter tracts cluster with ventral stream tracts in development and predict behavioral variability. Data

blitz presented at the Advanced Computational Neuroscience Network (ACNN) Conference. Virtual conference.

9| James, K.H., & **Vinci-Booher, S.** (2019, May). Visual Experiences During Letter Production Contribute to the Development of the Neural Systems Supporting Letter Perception. In T. Schubert, *Reading as a visual act: Recognition of visual letter symbols in the mind and brain.* Symposium conducted at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL, USA.

10| **Vinci-Booher, S.**, Nikoulina, A., James, T.W., & James, K.H. (2019, March). Sensorimotor Contingency Leads to Developmental Changes in the Neural Mechanisms Supporting Visual Recognition. Data blitz presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, USA.

11| James, K.H., & **Vinci-Booher, S.** (2017, October). The Development of the Neural Systems that Support Production and Perception of Handwritten Forms. In B.I. Bertenthal & J.J. Lockman, *Mind in motion: The development of cognitive processes in real time.* Symposium conducted at the Cognitive Development Society Biennial Conference, Portland, OR, USA.

12| **Vinci-Booher, S.**, James, T.W., & James, K.H. (2015, March). The Influence of Visual-Motor Experiences on the Development of Brain Mechanisms Subserving Letter Perception. In E. Wakefield & M. Novack, *Comparing the effects of active and passive learning experiences through action and gesture.* Symposium conducted at the Biennial Meeting of the Society for Research in Child Development**,** Philadelphia, PA, USA.

Conference Poster Presentations & Abstracts

International conferences. *Trainees that I directly mentored are <u>underlined</u>.*

1| **Vinci-Booher, S.***, Caron, B.*, Wang, J., Newman, S., Pestilli, F.**, & Cheng, H.** (2020, June). *Denoising diffusion-weighted magnetic resonance data using convolutional neural networks*. Poster presented at the Annual Meeting of the Organization for Human Brain Mapping. Virtual conference. *Shared first author. **Shared senior author.

2| **Vinci-Booher, S.**, <u>Sehgal, N.</u>, & James, K.H. (2018, May). *Visual and motor experiences of handwriting contribute to gains in visual recognition*. Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL, USA.

3| **Vinci-Booher, S.**, <u>Sehgal, N.</u>, Muñoz-Rubke, F., & James, K.H. (2016, May). *Perceptual and motor effects of letter writing on brain regions associated with letter perception.* Poster presented at the Annual Meeting of the Vision Sciences Society, St. Pete Beach, FL, USA.

4| **Vinci-Booher, S.**, Cheng, H., & James, K.H. (2016, March). *Handwriting as a visually guided action: A developmental neuroimaging study.* Poster presented at the Latin American School for Education, Cognitive, and Neural Sciences, Buenos Aires, Argentina.

5| Fang, S., Liu, Y., Huang, J., **Vinci-Booher, S.**, Anthony, B., & Zhou, F.C. (2010, June). *Surface analysis from video volumes for fetal alcohol syndrome classification.* Poster presented at the International Conference on 3D Data Processing, Visualization, and Transmission, Sydney, Australia.

National conferences.

6| **Vinci-Booher, S.**, Bullock, D., Caron, B., McPherson, B., James, K.H., & Pestilli, F. (2019, October). *The relationship between the microstructure of vertical white matter pathways and behavior in early elementary school children*. Poster presented at the Cognitive Development Society Biennial Conference, Louisville, KY, USA.

7| **Vinci-Booher, S.**, Nikoulina, A., James, T.W., & James, K.H. (2019, March). *Sensorimotor contingency leads to developmental changes in the neural mechanisms supporting visual recognition.* Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, USA.

8| **Vinci-Booher, S.**, & James, K.H. (2017, October). *The development of the neural systems supporting handwriting and letter perception from kindergarten to adulthood.* Poster presented at the Cognitive Development Society Biennial Conference, Portland, OR, USA.

9| Zemlock, D., **Vinci-Booher, S.**, & James, K.H. (2016, April). *Learning about letters through handwriting practice.* Poster presented at The National Conference on Undergraduate Research, Asheville, NC, USA.

10| **Vinci-Booher, S.**, Engelhardt, L., James, T.W., & James, K.H. (2015, March). *Functional connections during letter perception reflect aspects of letter writing.* Poster presented at the Annual Meeting of the Cognitive Neuroscience Society, San Francisco, CA, USA.

11| **Vinci-Booher, S.**, James, T.W., & James, K.H. (2015, March). *Investigating functional connectivity in the developing brain using generalized psychophysiological interactions analysis.* Poster presented at the Biennial Meeting of the Society for Research in Child Development, Philadelphia, PA, USA.

12| Black, L., **Vinci-Booher, S**., Begyn, E., McDonald, B.C., Katzenstein, J. (2013, October). *Neurocognitive and behavioral profile differences in children treated for medulloblastoma.* Poster presented at the Annual Meeting of the American Academy of Clinical Neuropsychology, Chicago, IL, USA.

13| Highley, E., **Vinci-Booher, S.**, Begyn, E., and Katzenstein, J. (2013, June). *Evaluation of intellectual abilities pre- and post- radiation therapy in preschool aged children with solid brain tumors.* Published abstract at the Annual Meeting of the American Academy of Clinical Neuropsychology, Chicago, IL, USA.

14| Black, L., Begyn, E., McDonald, B., **Vinci-Booher, S.**, Katzenstein, J. (2013, June). *Neuropsychological outcomes in children with medulloblastoma.* Published abstract at the Annual Meeting of the American Academy of Clinical Neuropsychology, Chicago, IL, USA.

15| Black, L., Begyn, E., McDonald, B., **Vinci-Booher, S**., Katzenstein, J. (2013, June). *Behavioral outcomes in children with medulloblastoma.* Published abstract at the Annual Meeting of the American Academy of Clinical Neuropsychology, Chicago, IL, USA.

16| Anthony, B., **Vinci-Booher, S.,** Veene, B., Wetherill, L., Goodlett, C., Ward, R., & Zhou, F. C. (2012, June). *Effects of duration and dose of prenatal alcohol exposure via maternal liquid diet on facial dysmorphology in C57BL/6J mice.* Abstract at the 35th Annual Scientific Meeting of the Research Society on Alcoholism, San Francisco, CA, USA.

17| Wetherill, L., **Vinci-Booher, S.,** Mattson, S., Coles, C., Sowell, E., McCarthy, N., ... & Foroud, T. (2012, June). *Gene x alcohol exposure: what does this interaction tell us about phenotypic variation in fetal alcohol spectrum disorders?* Abstract at the 35th Annual Scientific Meeting of the Research Society on Alcoholism, San Francisco, CA, USA.

18| Anthony, B., **Vinci-Booher, S.**, Wetherill, L., Ward, R., Goodlett, C., & Zhou, F.C. (2009, June). *Alcohol induced facial dysmorphology in C57BL/6 mouse models of Fetal Alcohol Spectrum Disorder.* Poster presented at the Research Society on Alcoholism meeting, San Diego, CA, USA.

Regional conferences.

19| DelaCuesta, C., **Vinci-Booher, S.**, & James, K.H. (2018, April). *Novel symbol learning: The maintenance of brain changes over time.* Poster presented at the Center of Excellence for Women in Technology Conference, Bloomington, IN, USA.

20| Harris, S., **Vinci-Booher, S.**, & James, K.H. (2018, April). *Handwriting influence on symbol learning in adults.* Poster presented at the Center of Excellence for Women in Technology Conference, Bloomington, IN, USA.

21| Yearling, E., **Vinci-Booher, S.**, & James, K.H. (2017, April). *Investigating changes in functional connectivity between visual and motor systems after handwriting practice.* Poster presented at the Center of Excellence for Women in Technology Conference, Bloomington, IN, USA.

22| Sehgal, N., **Vinci-Booher, S.**, & James, K.H. (2015, February). *The relationship between handedness and activation in the visual cortex of the brain.* Poster presented at the Center of Excellence for Women in Technology Conference, Bloomington, IN, USA.

23| **Vinci-Booher, S.**, Engelhardt, L., James, T.W., & James, K.H. (2014, March). *Investigating the development of letter perception using gPPI connectivity analysis.* Poster presented at the Center of Excellence for Women in Technology Conference, Bloomington, IN, USA.

24| Belcher, C., Terry, M., **Vinci-Booher, S.**, & Du, Y. (2006, October). *Multimodal face recognition system.* Poster presented at the Indiana University Undergraduate Research Conference, Indianapolis, IN, USA.

Teaching Experience

Courses – Instructor of record.

2016 – 2018	Trigonometry (2-week course) Foundations in Science and Mathematics Summer Program for High School Students, Indiana University, Bloomington, Indiana
2016	P211: Methods of Experimental Psychology Department of Psychological & Brain Sciences, Indiana University, Bloomington, Indiana
2012	English as a Second Language (1-week course) Saint Nicolas Parish High School, Môle Saint-Nicolas, Haïti

Guest lecture.

2020	Handwriting and Letter Perception, Course: Language & Psycholinguistics, University of Rochester, Rochester, NY

Substitute lectures.

2016	Language and the Brain, Course: Cognitive Neuroscience, Indiana University, Bloomington, Indiana
2016	Experimental Design in Neuroimaging, Course: Lab in Clinical Neuroimaging, Indiana University, Bloomington, Indiana
2015	Preprocessing of fMRI Data, Course: Neuroimaging: Theory and Methods, Indiana University, Bloomington, Indiana
2014	Executive Functioning, Course: Cognitive Neuropsychology, Indiana University, Bloomington, Indiana

Teaching assistantships.

2018	Experimental Methods in Social Psychology, Indiana University, Bloomington, Indiana
2017	Cognitive Neuroscience, Indiana University, Bloomington, Indiana
2016	Research and Theory in Developmental Science, Indiana University, Bloomington, Indiana
2014	Cognitive Neuroscience, Indiana University, Bloomington, Indiana
2013	Cognitive Neuropsychology, Indiana University, Bloomington, Indiana
2009	Human Anthropology, Indiana University-Purdue University, Indianapolis, Indiana

Mentorship Experience

Graduate student trainees.

2019 – *present*	Maria Photiou Domain expertise: Dancing and white matter

Undergraduate student trainees – Honors theses.

2016 – 2017	Neha Sehgal The role of dynamic representations in symbol learning
2015 – 2016	Debby Zemlock Learning about letters through handwriting

Undergraduate student trainees – Capstone projects.

2021 – *present*	Wesley Wolf Development of a child-friendly dorsal pRF mapping protocol
2020	Janet Oluwayomi White matter and learning
2018	Sarah Harris Contribution of visual and motor experiences to symbol learning

2016	Chandler Boys Developing handwriting training for early-literate children
2016	Emily Yearling Preprocessing of fMRI data from child participants

Undergraduate student trainees – Summer research experience projects.

2017	Amanda Ellison Digital analysis of letters handwritten by early literate children
2015	Tayla Frizzell Automated identification and scoring of child handwriting samples

Department, College, & University Service

2019 – *present*	Grant Reviewer for Indiana Clinical and Translational Sciences Institute
2019 – *present*	Conversations in Science at IU, http://blogs.iu.edu/sciu
2019	Member, Diversity Advancement Committee at IU
2015 – 2020	Indiana University Groups STEM Mentor for Underrepresented Students, Bloomington, Indiana
2015 – 2019	Foundations in Science & Mathematics at IU, Math Course Committee
2015 – 2019	Preparing Future Faculty Conference Planning Committee at IU
2018	Graduate Student Coordinator for APS Learning Workshop at IU
2017	Emerging Areas of Research Faculty Search Committee at IU
2012 – 2013	Transportation Committee at IUPUI
2009	Hosted the Society of Women Engineers Region H Conference at IUPUI
2006 – 2009	Society of Women Engineers (SWE) Fundraising Committee at IUPUI

Reviewer Service

Peer-reviewed journals (ad hoc reviewer). Brain Imaging & Behavior, Educational Psychology Review, Investigative Ophthalmology and Vision Science, Neuropsychologia, PLOS ONE, Psychological Bulletin & Review, Psychological Science, Reading & Writing

Conference abstracts. Association for Psychological Science Annual Convention (2020, 2021)

Grant applications. Indiana Clinical and Translational Sciences Postdoc Challenge (2019, 2020)

Professional Organizations

Current. Association for Psychological Science, Cognitive Development Society, Cognitive Neuroscience Society, International Society of Magnetic Resonance in Medicine, Vision Sciences Society

Past. Society for Research in Child Development, Society of Women Engineers