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Graduate Student
University of California-Davis
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EDUCATION & PROFESSIONAL EMPLOYMENT

- Graduate Student, Psychology Department, University of California-Davis
(9.25.11 - present)
- Lab manager, Cabeza Lab, Center for Cognitive Neuroscience, Duke University
(11.01.2007 – 9.01.2011)
- Associate in Research, Cabeza Lab, Center for Cognitive Neuroscience, Duke University
(11.01.2006 – 10.31.2007)
- B.Sc. (Biology, Chemistry m.) University of North Carolina, Chapel Hill
(8.01.2000 – 12.01.2004)

RESEARCH EXPERIENCE

- Research specialist, Neural mechanisms of episodic memory; Cabeza Lab, Center for Cognitive Neuroscience, Duke University (11.01.2006 – 09.01.2011)
- Volunteer Research Assistant, Neural Indices of Discourse Coherence; Kuperberg Lab, Department of Psychology, Tufts University (06.01.2006 – 08.01.2006)
- Rehabilitation Unit Volunteer, Long-term rehab clinic; John Umstead Hospital,
(08.25.2004 – 12.10.2004)
- Field Research Assistant, Accompanying Dr. K.A.I. Nekaris; Oxford University, Sri Lanka
(06.05.2004 – 08.12.2004)
- Primate Field Research Student Project, La Suerte Biological Field Station, Costa Rica
(12.26.2003 – 01.22.2004)
- Research Assistant, Clemmons Lab, UNC Department of Medicine
(01.10.2001 – 05.01.2003)

MENTORING/TEACHING/AWARDS

Mentorship/Student supervision

- Project Virtual Davis
Charlotte Mehaffey, Undergraduate research assistant, University of California-Davis
(01.01.2016 - present)
- Undergraduate senior research project mentor
Nichole Bouffard, Undergraduate thesis project, University of California-Davis
(01.04.2015 – 05.09.2015)
Heather Wood, Undergraduate thesis project, University of California-Davis
(01.04.2015 – 05.09.2015)
Mingli Liang, Senior research project, University of California-Davis visiting student

Teaching Assistant

- Introduction to Cognitive Neuroscience, Department of Psychology, University of California-Davis
- Introduction to Cognitive Psychology, Department of Psychology, University of California-Davis
- Development of memory, Department of Psychology, University of California-Davis
- Neurobiology of learning and memory, Department of Psychology, University of California-Davis
- Research Methods in Psychology, Department of Psychology, University of California-Davis
- Introduction to Cognitive Neuroscience, Department of Psychology, University of California-Davis
- Human Perception, Department of Psychology, University of California-Davis
- Human Learning and memory, Department of Psychology, University of California-Davis
- General Psychology, Department of Psychology, University of California-Davis

Awards

- Dissertation Fellowship (2017)
- Dukes travel award (2016)

PUBLICATIONS

Stokes, J., Kyle, C., Huffman, D., Ekstrom, A.D. (under review) Integration of novel shape templates during human spatial navigation leads to prototype extraction, non-Euclidean environments.

Starrett, M.J., **Stokes, J.D.**, Ekstrom, A.D. (under review). Learning-Dependent Evolution of Spatial Representations in Large-Scale Virtual Environments.

Monge, Z.A., Wing, E. A., **Stokes, J.**, Cabeza, R. (2017). Search and Recovery of Autobiographical and Laboratory Memories: Shared and Distinct Neural Components. *Neuropsychologia*.

Bouffard, N., **Stokes, J.**, Kramer, H., Ekstrom, A. (2017). Temporal encoding strategies result in boosts to final free recall performance comparable to spatial ones. *Memory & Cognition*.

Kyle, C.T., **Stokes, J.**, Bennett, J., Meltzer, J., Permenter, M.R., Vogt, J.A., Ekstrom, A., Barnes, C.A. (2017) Cytoarchitectonically-driven MRI atlas of nonhuman primate hippocampus: preservation of subfield volumes in aging. *Hippocampus*. 10.1002/hipo.22809

Lieberman, J.S., Kyle, C. T., Schedlbauer, A., **Stokes, J.**, Ekstrom, A. D. (2017). A tale of two temporal coding strategies: Common and dissociable brain regions involved in recency vs. associative temporal order retrieval strategies. *Journal of Cognitive Neuroscience*.

Kyle, C. T., **Stokes, J. D.**, Lieberman, J. S., Hassan, A. S., & Ekstrom, A. D. (2015). Successful retrieval of competing spatial environments in humans involves hippocampal pattern separation mechanisms. *eLife*, 4.

Stokes, J., Kyle, C., & Ekstrom, A. D. (2015). Complementary Roles of Human Hippocampal Subfields in Differentiation and Integration of Spatial Context. *Journal of Cognitive Neuroscience*, 27(3), 546–559.

Dolcos, F., Iordan, A. D., Kragel, **J.**, **Stokes, J.**, Campbell, R., McCarthy, G., & Cabeza, R. (2013). Neural correlates of opposing effects of emotional distraction on working memory and episodic memory: an event-related fMRI investigation. *Frontiers in Psychology*, 4, 293.

Shafer, A. T., Matveychuk, D., Penney, T., O'Hare, A. J., **Stokes, J.**, & Dolcos, F. (2012). Processing of emotional distraction is both automatic and modulated by attention: evidence from an event-related fMRI investigation. *Journal of Cognitive Neuroscience*, 24(5), 1233–1252.

Hayes, S.M., Buchler, N., **Stokes, J.**, Kragel, J., Cabeza, R. (2011). Neural correlates of confidence during item recognition and source memory retrieval: Evidence for both dual-process and strength memory theories. *Journal of Cognitive Neuroscience*.

Cabeza, R., Mazuz, M., **Stokes, J.**, Kragel, J., Woldorff, W., Ciaramelli, E., Olson, I., & Moscovitch, M. (2011). Overlapping Parietal Activity in Memory and Perception: Evidence for the Attention to Memory (AtoM) Model. *Journal of Cognitive Neuroscience*, 23, 3209-3217.

Dennis, N., Browndyke, J., **Stokes, J.**, Need, A., Burke, J., Welsh-Bohmer, K. & Cabeza, R. (2010) Temporal lobe functional activity and connectivity in young adult APOE e4 carriers. *Alzheimer's & Dementia*.

CONFERENCE PROCEEDINGS

Starrett, M.J., **Stokes, J. D.**, Kreylos, O., Ekstrom, A. D., (2016) Navigation in virtual reality with vestibular and proprioceptive input diminishes orientation-dependent spatial representations. Society for Neuroscience Society Abstracts.

Kyle, C., Bennett, J. L., **Stokes, J. D.**, Permenter, M. R., Vogt, J. A., Ekstrom, A. D., Barnes, C. A. (2016) Histology informed probabilistic hippocampal atlases of young and old rhesus macaques. Society for Neuroscience Society Abstracts.

Borders, A., **Stokes, J.**, Kyle, C., Ekstrom, A., Yonelinas, A. (2015) High-resolution hippocampal activation patterns predict memory precision. Society for Neuroscience Society Abstracts.

Stokes, J., Kyle, C., Ekstrom, A. (2015) Integration of familiar and novel spatial templates in episodic memory. Society for Neuroscience Society Abstracts.

Bouffard, N., **Stokes, J.**, Kyle, C., Lieberman, J., Ekstrom, A. (2015) Temporal encoding strategies produce comparable boosts in free recall performance to spatial encoding strategies. Society for Neuroscience Abstracts.

Lieberman, J., **Stokes, J.**, Kyle, C., Ekstrom, A. (2015) A tale of two temporal retrieval strategies: Dynamic expression of temporal sequence retrieval. Society for Neuroscience Abstracts.

Kyle, C., **Stokes, J.**, Ekstrom, A. (2014) Properties of spatial contextual representation within the human hippocampus during episodic memory retrieval. Society for Neuroscience Abstracts.

Stokes, J., Kyle, C., Ekstrom, A. (2014) Dissociable roles of human hippocampal subfields CA3/DG and CA1 during processing of spatial context. Society for Neuroscience Abstracts.

Stokes, J., Kyle, C., Ekstrom, A. (2014) Dissociable codes within the human hippocampal subfields during spatial context processing. Bay Area Memory Meeting Abstracts.

Stokes, J., Ekstrom, A. (2012) Representational similarity in CA3/DG tracks changes in spatial context. Cognitive Neuroscience Society Abstracts.

Smuda, D., Kyle, C., **Stokes, J.**, Ekstrom, A. (2012) Role of hippocampal subregions in disambiguating elements of temporal vs. spatial context in episodic memory. Cognitive Neuroscience Society Abstracts.

Stokes, J., Mazuz, Y., Daselaar, S., Moscovitch, M., Cabeza, R. (2011) Similarities and differences between the neural mechanisms of episodic and autobiographical memory recall. Cognitive Neuroscience Society Abstracts.

Hayes, S., Buchler, N., **Stokes, J.**, J, Kragel J., & Cabeza, R. (2010) Recollection orientation, retrieval success, and task difficulty: The role of prefrontal cortex and posterior parietal cortex during source and item memory. Cognitive Neuroscience Society Abstract.

Tomlinson, S., Kragel, J., **Stokes, J.**, Dolcos, F., McCarthy, G., & Cabeza, R. (2008). Role of individual differences in the response to emotional distraction: An event-related fMRI investigation. Supplement of Journal of Cognitive Neuroscience Abstracts.

Dolcos, F., **Stokes, J.**, Kragel, J., Ritchey, M. Tsukiura, T. McCarthy, G. & Cabeza, R. (2007). Neural correlates of opposing modulation of emotion on short- vs. long-term memory processes: An event-related fMRI investigation. Society for Neuroscience Abstracts.