

Luke T Havens

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Research Experience

University of North Carolina, Department of Biology
PhD student with Professor Kenneth J Lohmann
Chapel Hill, NC
2018-present

University of South Carolina, Department of Biological Sciences
Research Specialist with Assistant Professor Daniel I Speiser
Research Intern with Assistant Professor Daniel I Speiser
Columbia, SC
2016-2018
2015-2016

Medical University of South Carolina, Department of Pathology and Laboratory Medicine
Research Intern with Associate Professor Hainan Lang
Charleston, SC
2011, 2012, 2013

Teaching Experience

University of North Carolina, Department of Biology
Computational Neuroscience, Teaching Assistant
Chapel Hill, NC
2020

University of South Carolina, Department of Biological Sciences
Neurophysiology, Teaching Assistant
Biology 101 & 101L, Teaching Assistant
Neurobiology, Teaching Assistant
Columbia, SC
2018
2017
2014, 2016

Education

University of South Carolina
BS, Biology, *cum laude*
Columbia, SC
2016

Publications

Under review

Taylor BK, Lohmann KJ, Granger J, **Havens LT**. Long-distance transequatorial navigation using sequential measurements of magnetic inclination angle. *Journal of the Royal Society Interface*

Havens LT, Kingston ACN, and Speiser DI. Automated methods for efficient & accurate electroretinography. *Journal of Comparative Physiology A*

Published

Kingston ACN, Lucia RL, **Havens LT**, Cronin TW, and Speiser DI (2019) Vision in the snapping shrimp *Alpheus heterochaelis*. *Journal of Experimental Biology* (DOI: 10.1242/jeb.209015)

Lang H, Xing Y, Brown LSN, Samuvel DJ, Panganiban CH, **Havens LT**, Balasubramanian S, Wegner M, Krug EL, and Barth JL (2015) Neural stem/progenitor cell properties of glial cells in the adult mouse auditory nerve. *Scientific Reports* (DOI: 10.1038/srep13383)

Grants & Awards

UNC IDEA Grant (University of North Carolina, \$18, 733) written jointly with Brian K Taylor, Kenneth J Lohmann, and Catherine Kehl	2020
LI Gilbert Travel Award (University of North Carolina, \$750)	2019
Graduate Research Fellowship (National Science Foundation, \$138,000)	2018-present
First Year Fellowship (University of North Carolina, \$19,000)	2018
Magellan Research Scholarship (University of South Carolina, \$3,000)	2015-2016
Science Undergraduate Research Fellowship (University of South Carolina, \$3,000)	2015
1st place oral presenter (Student Research Day--MUSC, \$500)	2013
Carolina Scholar Fellowship (University of South Carolina, \$40,000)	2012-2016
Lieber Scholar Fellowship (University of South Carolina, \$40,000)	2012-2016
Summer Undergraduate Research Program (Medical University of South Carolina, \$4,000)	2012

Presentations

A model for directional magnetic field processing in the Caribbean spiny lobster <i>Panulirus argus</i> (Havens LT & Lohmann KJ)	
• UNC Evolution, Ecology, & Organismal Biology Lunch Symposium	2020
• Joint UNC/Duke Mathematical & Physical Biology symposium	2020
• Annual Meeting of the Society for Integrative and Comparative Biology (Austin, TX)	2020
A novel, automated approach to electroretinography (Havens LT, Kingston ACN, & Speiser DI)	
• UNC Evolution, Ecology, & Organismal Biology Lunch Symposium	2019
• Annual Meeting of the Society for Integrative and Comparative Biology (Tampa, FL)	2019
• Lund University Sensory Ecology course (participant)	2018
Assessing an automatable protocol for electrophysiological measurement of spectral sensitivity (Havens LT & Speiser DI)	
• Annual Meeting of the Society for Integrative and Comparative Biology (San Francisco, CA)	2018
Using autonomous robots to teach neuroethology (Havens LT)	
• University of South Carolina Neuroscience Community Retreat	2017
• Annual Meeting of the Society for Integrative and Comparative Biology (New Orleans, LA)	2017
Visual processing centers of scallops: structural characterization and comparison to mushroom bodies (Havens LT & Speiser DI)	
• University of South Carolina Discovery Day	2016
• Annual Meeting of the Society for Integrative and Comparative Biology (Portland, OR)	2016
Transforming growth factor alpha and hypoxia modulate neurosphere formation in cells from auditory nerve (Havens LT & Lang H)	
• University of South Carolina Discovery Day	2014
• MUSC Perry V. Halushka Student Research Day	2013
Role of fibroblasts in the neurosphere assay (Havens LT & Lang H)	
• Summer Undergraduate Research Program Student Symposium	2012

Service

UNC Biology Graduate Student Association Web Manager	2019-present
UNC Safe Spaces Committee Workshop Facilitator & Web Manager	2018-present