

Hannah Claussenius-Kalman

University of Houston
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EDUCATION

University of Houston

M.A. candidate, Developmental, Cognitive & Behavioral Neuroscience (Anticipated Spring 2018)
Current GPA: 3.70
Anticipated track of Ph.D. completion: Fall 2018 – Spring 2020

Pacific University

B.A., Psychology with Neuroscience Emphasis (2016)
Spanish minor (2016)
Summa Cum Laude (2016)
GPA: 3.97

Study Abroad (Fall 2014 – Spring 2015)

Spain: Universidad Pablo De Olavide (Fall 2014)
Italy: Università Lorenzo de Medici (Spring 2015)

University of Oregon

Undergraduate courses (Fall 2012 – Spring 2013)

RESEARCH INTERESTS

Language Acquisition, Bilingualism, Animal Behavior

PUBLICATIONS

Published Papers

Island, H., Wengeler, J., & Claussenius-Kalman, H. (2017). The flehmen response and pseudosuckling in a captive, juvenile Southern sea otter (*Enhydra lutris nereis*). *Zoo Biology* 36:30–39. doi:10.1002/zoo.21346

In Press

Claussenius-Kalman, H. & Hernandez, A. E. (in press). The Neurocognitive Effects of Multilingualism throughout the Lifespan. Chapter in J. W. Schwieter (Ed.), *The Handbook of the Neuroscience of Multilingualism*. Hoboken, NJ: Wiley-Blackwell.

Hernandez, A. E., Claussenius-Kalman, H., Ronderos, J., Castilla-Earls, A., Sun, L., Weiss, S., & Young, D. (in press). Neuroemergentism: A framework for studying cognition and the brain. *The Journal of Neurolinguistics*.

In Preparation

Claussenius-Kalman, H. & Hernandez, A. E. (2017). Age of Acquisition and Cortical Thickness in a Large Sample of Bilinguals and Monolinguals. In preparation for submission to NeuroImage.

Vaughn, K. A., Claussenius-Kalman, H., & Hernandez, A. E. (2018). Cortical Thickness as a Marker of Developing Language Skill: A Structural MRI Study.

Hernandez, A. E., Claussenius-Kalman, H., & Ronderos, J. (in preparation). Neurocomputational Emergentism as a Framework for Language Development. Chapter in K. Federmeier and D. Watson (Eds.), *The Psychology of Learning and Motivation*.

ACADEMIC PRESENTATIONS

Oral Presentations

Claussenius-Kalman, H. (April 13, 2018). Age of acquisition and brain structure in a large sample of bilinguals and monolinguals. Pre-defense Master's Thesis Presentation. University of Houston, Houston, Texas.

Claussenius-Kalman, H. (Oct 4, 2017). Age of acquisition and cortical thickness in bilinguals. Master's Thesis Proposal. University of Houston, Houston, Texas.

Claussenius-Kalman, H. (April 28, 2017). Cognitive flexibility, individual differences, and novel word learning in monolingual and bilingual adults. University of Houston, Houston, Texas.

Claussenius-Kalman, H., Wengeler, J. (April 27, 2016). Suckle and Smell: Abnormal Repetitive Behavior Among Three Captive Southern Sea Otters. Senior Thesis. Pacific University, Forest Grove, Oregon.

Claussenius-Kalman, H., Wengeler, J. (Feb 28, 2016). Suckle and Smell: Abnormal Repetitive Behavior Among Three Captive Southern Sea Otters. Oregon Academy of Science, Pacific University, Forest Grove, Oregon.

Claussenius-Kalman, H., Wengeler, J. (July 15, 2015). Enclosure Utilization, Interaction Quality, and Activity Variability among Three Captive Southern Sea Otters. Pacific Research Institute for Science and Mathematics, Pacific University, Forest Grove, Oregon.

Poster Presentations

Claussenius-Kalman, H., Archila-Suerte, P., Vaughn, K., & Hernandez, A. E. (May 10, 2018). Age of acquisition and cortical thickness in bilinguals. Poster Presentation. Bilingual Research Conference, University of Texas Health and Science Center, Houston, Texas.

Claussenius-Kalman, H., Archila-Suerte, P., Vaughn, K., & Hernandez, A. E. (Nov 10, 2017). Age of acquisition and cortical thickness in bilinguals. Poster Presentation. Society for the Neurobiology of Language, Baltimore, Maryland.

Claussenius-Kalman, H., Wengeler, J. (Sept 20, 2015). Zoo Density and Visitor Impact: Their Effect on the Behavior and Exhibit Use among Three Southern Sea Otters. Poster Presentation. Association of Zoos and Aquariums Annual Conference, Hogle Zoo, Salt Lake City, Utah.

Claussenius-Kalman, H., Wengeler, J. (Nov 11, 2015). Enclosure Utilization, Interaction Quality, and Activity Variability among Three Captive Southern Sea Otters. Poster Presentation. Pacific University Undergraduate Research Conference, Pacific University, Forest Grove, Oregon.

FELLOWSHIPS

National Institute of Health BRAIN Initiative Summer Course

- Computational Neuroscience, “Models and Neurobiology” (June 2018).
- Intensive 2-week summer course on computational modeling led by Dr. Satish Nair

Mont. H. Jr. and Jane Goldstone Graduate Fellowship (Fall 2017 – Present). Endowment: \$500 per semester.

Pacific Research Institute for Science and Mathematics. Pacific University. Endowment: \$3,500.

- Abnormal Repetitive Behavior in Three Southern Sea Otters, Heide Island PhD (C.R.A.B. Lab), (2015)
- First Documented Flehmen Response of Mustelidae Exhibited by Captive Southern Sea Otter, Heide Island PhD (CRAB Lab), (2015)

SOCIETIES AND HONORARIES

Psi Chi, International Honors Society in Psychology (Spring 2015 – Present)

Alpha Kappa Delta Sorority (Fall 2013 – Spring 2016)
Greek Senate Representative

National Residence Hall Honorary (Spring 2013 – Spring 2016)

LEADERSHIP

Institutional Review Board, University of Houston
Student Reviewer (2017 – Present)

Department of Developmental, Cognitive, & Behavioral Neuroscience, University of Houston
Student-Faculty Liaison (2016-2017)

SCHOLARSHIPS

Mont H. Jr. and Jane Goldston Graduate Fellowship, University of Houston (2016 – 2018)

Founder’s Scholarship for Academic Achievement, Pacific University (2013 – 2016)

First Christian Church Scholarship (2012, 2013, 2014, 2015, 2016)

Oregon Resident Scholarship (2012 – 2016)

Eva Krebs Boxer Spirit Award (2013 – 2015)

College Scholars Scholarship, University of Oregon (2012 – 2013)

AWARDS

Summa Cum Laude, Pacific University (2016)

Dean's List, Pacific University (Fall 2013 – Spring 2015)

Dean's List, University of Oregon (Fall 2012 – Spring 2013)

RESEARCH EXPERIENCE

Current Research

Laboratory for the Neural Bases of Bilingualism, University of Houston (2016 – Present)

Principal Investigator: Arturo E. Hernandez

- Thesis: Comparison of Brain Structure Metrics to Analyze Age of Second Language Acquisition in Bilinguals and Monolinguals
 - This research aimed understand the structural adaptations associated with age of acquisition. This objective was accomplished by analyzing three common measures of gray matter structure. Previous studies have examined these metrics individually, but not together in the same sample.
- Age of Acquisition and Cortical Thickness in Bilinguals and Monolinguals
 - This research is in preparation for submission to NeuroImage. This study aimed to investigate the relationship between second language age of acquisition and brain structure by using magnetic resonance imaging (MRI) to examine cortical thickness in 364 bilinguals and monolinguals.
- Neural Predictors of Language Disorder in Bilingual and Monolingual Children (Fall 2017 – Spring 2019).
 - This study will investigate the neural predictors of language disorder in 100 bilingual and 100 monolingual 4- and 5-year-olds via behavioral (discrimination/identification tasks) and neuroimaging (structural MRI, resting state fMRI, and fNIRS) methods.

Undergraduate Research

Warm Hearts Laboratory, Pacific University (2015 – 2016)

Principal Investigator: Erica Kleinknecht

- Effect of Body Temperature on Autobiographical Memory Reconstruction (Spring 2016)

Comparative Research in Animal Behavior Laboratory (CRAB Lab), Pacific University (2015 – 2016)

Principal Investigator: Heide D. Island

- Abnormal Repetitive Behavior in Three Southern Sea Otters (Summer 2015)
- Abnormal Repetitive Behavior in Three North American River Otters (Fall 2015)

COURSEWORK

Relevant Graduate Coursework

- Neuroimaging Methods, Dr. Benjamin Tamber-Rosenau (Spring 2018)
- Grant Writing, Dr. Clayton Neighbors (Spring 2018)
- Scientific Writing, Dr. Steven P. Woods (Fall 2017)
- Cognitive Neuroscience, Dr. Arturo E. Hernandez (Spring 2017)
- Experimental Design, Dr. Christopher D. Barr (Spring 2017)
- The Bilingual Brain, Dr. Arturo E. Hernandez (Fall 2016)
- Foundations of Neuropsychology, Dr. Paul J. Massman (Fall 2016)
- Statistics for Psychology, Dr. Christopher D. Barr (Fall 2016)

Relevant Undergraduate Coursework

- Psychopharmacology, Dr. Heide D. Island (Spring 2016)
- Memory and Mind, Dr. Erica Kleinknecht (Fall 2015)
- Introduction to Neuroscience (Fall 2015)
- Sensation and Perception (Spring 2014)
- Behavioral Statistics, Dr. Dane Joseph (Fall 2013)

EMPLOYMENT

Teaching Experience

Teaching Fellow, University of Houston.

- Introduction to Cognitive Psychology (online). Anticipated for Fall 2018.

Teaching Assistant, University of Houston.

- Physiological Psychology (online).
Provided mentorship and tutoring to students via in-person meetings and online support.
 - Instructor: Jane Jacob (Fall 2017)
 - Instructor: Emily Huston-Warren (Fall 2017)
 - Instructor: Jessica Wooden (Summer 2017)

- Physiological Psychology (in person).
Provided mentorship and tutoring to students via in-person meetings and online support. Proctored tests to ensure academic honesty.
 - Instructor: Emily Barton (Summer 2017)

- Cognitive Psychology (online).
Provided mentorship and tutoring to students by holding group study sessions, in-person meetings, and email support.
 - Instructor: Nicholas Armenti (Summer 2018).
 - Instructor: Dr. Odochi Nwoko (Spring 2017).

- Psychology of Adolescence (online).
Provided mentorship and tutoring to students via in-person meetings and online support.
 - Instructor: Rebecca Martin (Spring 2018)

- Cognitive Psychology (in person).
Mentored students on group projects and evaluated their performance. Substitute-taught review sessions. Tutored students via in-person meetings and email support. Proctored tests, graded open-answer quiz responses and test scores, assisted in calculation of final grades.
 - Instructor: Victoria Wagner (Fall 2016)
 - Instructor: Brandin Munson (Fall 2016 & Spring 2017)
 - Instructor: Amanda Child (Spring 2018)
 - Professor: Dr. Arturo Hernandez (Fall 2016, Spring 2017, Spring 2018)

Teaching Mentor, Pacific University.

- Research Methods (in person).
Facilitated students designing research project proposal, tutored during and outside of class, provided mentorship.
 - Professor: Dr. Erica Kleinknecht (Spring 2016).

Other Employment

Center for a Sustainable Society, Pacific University, (2013 – 2014; 2015 – 2016)
Projects Manager
Greenhouse Gas Analysis Committee

Oregon Leadership in Sustainability, University of Oregon (2012 – 2013)
Public Relations and Advertising

SERVICE

Texas Center for the Missing

Volunteer: Annual Fundraising Gala (April 8, 2017)

Pacific for the Dignity of Animals

Co-president (2015 – 2016)

Member at Large (2013-2014)

Alpha Kappa Delta Sorority

Pacific University Greek Senate Representative (Fall 2015)

Member Abroad (2014-2015)

Member at Large (2013 – 2014)

National Residence Hall Honorary

Member at Large, Pacific University Chapter (2013 – 2016)

Member at Large, University of Oregon Chapter (2013)

Spanish Club

Member at Large (2015 – 2016)

REFERENCES

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