

SCOTT A. STONE

sastone@ualberta.ca



EDUCATION

University of Alberta

Doctor of Philosophy (Psychology; expected) 2017 - current

Supervisors: Dr. Craig S. Chapman & Dr. Anthony Singhal

Thesis: *in progress*

University of Lethbridge

Master of Science (Neuroscience) 2015 - 2017

Supervisors: Dr. Matthew S. Tata & Dr. Claudia L.R. Gonzalez

Thesis: *Using Auditory Augmented Reality to Understand Visual Scenes* 

University of Lethbridge

Bachelor of Science (Neuroscience) 2011 - 2015

Supervisor: Dr. Claudia L.R. Gonzalez

RESEARCH EXPERIENCE

The Action in Complex Environments Lab, University of Alberta

Graduate Student (Ph.D) Sept. 2017 - current

Supervisor: Dr. Craig S. Chapman

The Brain in Action Lab, University of Lethbridge

Graduate Student (M.Sc) & Research Assistant (B.Sc) Sept. 2013 - Aug. 2017

Supervisor: Dr. Claudia L.R. Gonzalez

The Tata Lab, University of Lethbridge

Graduate Student (M.Sc) Sept. 2015 - Aug. 2017

Supervisor: Dr. Matthew S. Tata

Speech Neurogenetics Laboratory, University of Alberta

Summer Research Intern (UARE) May 2014 - Aug. 2014

Supervisors: Dr. Deryk S. Beal & Dr. Ivor Cribben

WORK EXPERIENCE

BioWare, Edmonton

Mitacs Accelerate Intern - Quality Verification - Researcher Feb. 2020 - Feb. 2021

Software development for analysis of hand and gaze patterns during user interface interaction

PUBLICATIONS

**equal contribution*

4. Wispinski N.J., **Stone S.A.**, Bertrand J.K., Ouellette Zuk A.A., Lavoie E.B., Gallivan J.P., Chapman C.S. (2020). Reaching for known unknowns: Rapid reach decisions accurately reflect the future state of dynamic probabilistic information. *Cortex*. Under review. [preprint](#) — [data](#)
3. **Stone S.A.**, Baker J., Olsen R., Gibb R., Doan J., Hoetmer J., Gonzalez C.L.R. (2019). Visual field advantage: Redefined by training? *Frontiers in Psychology*. 9:2764. [10.3389/fpsyg.2018.02764](#) — [data](#)
2. *Lavoie E.B., *Bertrand J.K., ***Stone S.A.**, *Wispinski N.J., *Sawalha J., *Chapman C.S. (2018). Examining the “species” of situated cognition in humans. Comment on “Cognition beyond representation: Varieties of situated cognition in animals”. *Comparative Cognition & Behavior Reviews*, 13. [10.3819/cabr.2017.120003](#)


1. **Stone S.A.**, Tata M.S. (2017). Rendering visual events as sounds: Spatial attention capture by auditory augmented reality. *PLOS ONE*. 12.8. e0182635. [10.1371/journal.pone.0182635](https://doi.org/10.1371/journal.pone.0182635) — [data](#)

CONFERENCE PRESENTATIONS

20. Beausoleil K., Jafferjee, T., Wispinski, N., **Stone S.A.**, Chapman, C.S. (2019). The Nature of Decision-Making: Human Behaviour vs Machine Learning. Poster presented at the WISEST poster presentation ceremony. August 15; Edmonton, AB.
19. Lavoie E.B., **Stone S.A.**, Hebert J.S., Chapman C.S. (2018). Eye and body movements during object interactions in real and virtual worlds. Poster presented at Society for Neuroscience (SfN). November 3; San Diego, CA, USA.
18. **Stone S.A.**, Lavoie E.B., Chapman C.S. (2018). Assessing different 3D gaze vector calibration techniques on synchronized motion capture and eye-tracking data. Poster presented at Society for Neuroscience (SfN). November 3; San Diego, CA, USA.
17. **Stone S.A.**, Dawson T.R., Boser Q., Hebert J.S., Chapman C.S. (2018). Using Lab Streaming Layer to collect synchronized multimodal datasets. Presented at the Canadian Action and Perception Network (CAPnet) Canadian Physiological Society (CPS) Satellite Symposium at the Canadian Association for Neuroscience (CAN) Conference. Vancouver BC.
16. Lee, V., **Stone S.A.**, Tata M.S. (2018). How many is too many at a cocktail party? Testing the limits of spatial resolution in complex auditory scenes. Presented at the Canadian Action and Perception Network (CAPnet) Canadian Physiological Society (CPS) Satellite Symposium at the Canadian Association for Neuroscience (CAN) Conference. Vancouver BC.
15. **Stone S.A.**, Gonzalez C.L.R., Tata M.S. (2017). Hearing What You See: A Novel Visual-to-Auditory Augmented Reality System. Presented at the Banff Annual Seminar in Cognitive Science (BASICS). May 5-6; Banff, AB.
14. Lee V., **Stone S.A.**, Tata M.S. (2017). Resolution of multiple talkers in a "cocktail party" depends on head movements. Presented at the Undergraduate Research in Science Conference of Alberta. April 7-8; Calgary AB.
13. Grasse L.W.N, **Stone S.A.**, Tata M.S. (2017). Localization of Moving Sound Sources in Virtual Reality Technology. Presented at the Undergraduate Research in Science Conference of Alberta. April 7-8; Calgary AB.
12. **Stone S.A.**, Tata M.S. (2017). Seeing Through Sound: A novel visual-to-auditory augmented reality device. Presented at the Canadian Spring Conference on Behaviour and Brain. February 23-25; Fernie BC.
11. Lee V., **Stone S.A.**, Tata M.S. (2017). Whats in a cocktail party? Testing the mechanisms of auditory spatial resolution in multi-talker scenes. Presented at the Canadian Spring Conference on Behaviour and Brain. February 23-25; Fernie BC.
10. Grasse L., **Stone S.A.**, Tata M.S. (2016). The Effect of Head Movements on Auditory Front/Back Ambiguity in Virtual Reality Technology. Presented at the Prairie Perception, Action and Cognition Conference (P-PACT). November 5; Canmore AB.
9. Lee V., **Stone S.A.**, Tata M.S. (2016). How many guests makes for a good cocktail party? Presented at the Prairie Perception, Action and Cognition Conference (P-PACT). November 5; Canmore AB.
8. **Stone S.A.**, Delbrück T., Gonzalez C. L. R., Tata M.S. (2016). Prosthetic attention: A visual-to-auditory augmented reality system. Presented at the Prairie Perception, Action and Cognition Conference (P-PACT). November 5; Canmore AB.

7. **Stone S.A.**, Tata M.S., Gonzalez C. L. R., Delbrck, T. (2016). Computational model of motion sensitive cells using a neuromorphic artificial retina. Presented at the Banff Annual Seminar in Cognitive Science (BASICS). April 29-30; Banff AB.
6. **Stone S.A.**, Flindall J.W., Gonzalez C. L. R. (2015). The bias in our vision: Lower visual field advantages for grasping revealed through gaze analysis. Presented at the Cognitive Neuroscience Society Conference on Innovations in Mind and Brain Science. March 28-31; San Francisco, CA, USA.
5. **Stone S.A.**, Gonzalez C.L.R. (2015). Right visual field advantages for grasping, but only in the lower visual field. Presented at the Canadian Spring Conference on Behaviour and Brain. February 19-21; Fernie BC.
4. **Stone S.A.**, Cribben, I., Beal D.S. (2014). Functional Connectivity Analysis in Adults Who Stutter. Presented at the University of Alberta Research Experience presentation ceremony. August 20; Edmonton AB.
3. **Stone S.A.**, Gonzalez, C.L.R. (2014). The attention-hungry left space: An examination of eye gaze during a reach-to-grasp task. Presented at the Banff Annual Seminar in Cognitive Science (BASICS). May 2-4; Banff AB.
2. **Stone S.A.**, deBruin N., Gonzalez, C.L.R. (2014). Do you grasp where you look? Presented at the Canadian Spring Conference on Behaviour and Brain. February 20-22; Fernie BC.
1. MacLean J., **Stone S.A.**, Gonzalez C. L. R. (2013). EMG correlates of action observation. Presented at the Alberta Motor Control Association Annual Meeting (NeuroHike). September 27-29; Jasper AB.

AWARDS AND HONOURS

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| Mitacs Accelerate Internship Award (\$30000 award / \$15000 research grant) | February 2020-2021 |
| Dept. of Psychology Best Graduate Student Research Paper Award  (\$500) | August 2019 |
| President's Doctoral Prize of Distinction (\$10000 (annual)) | September 2019-2021 |
| NSERC Postgraduate Scholarship-Doctoral (\$42000) | September 2019-2021 |
| Mitacs Accelerate International Internship Award (\$45000; declined) | March 2019 |
| Queen Elizabeth II Graduate Scholarship - Doctoral (\$15000) | October 2018 |
| University of Alberta Graduate Travel Award (\$500) | October 2018 |
| University of Alberta Skitch Travel Award (\$250) | September 2018 |
| University of Alberta Graduate Travel Award (\$500) | November 2017 |
| University of Alberta Department of Psychology Scholarship (\$10000) | September 2017 |
| University of Lethbridge Graduate Scholarship (\$16000; declined) | July 2017 |
| Government of Alberta Graduate Scholarship Award (\$3000) | February 2017 |
| Agility Neuroscience Business Plan Pitch Competition (\$500) | April 2016 |
| University of Lethbridge Graduate Travel Award (\$500) | March 2015 |
| University of Lethbridge Students Union Travel Award (\$250) | March 2015 |
| University of Alberta Research Experience Award (\$6500) | May - August 2014 |
| University of Lethbridge Students Union Travel Award (\$500) | March 2014 |
| University of Lethbridge Excellence & Leadership Qualities Scholarship (\$2500) | January 2012 |
| Don Henneberg Memorial Scholarship (\$1500) | January 2012 |
| Lufkin Academic Scholarship (\$2000) | January 2012 |
| KUDU Academic Excellence Scholarship (\$750) | September 2011 |

ACADEMIC SERVICE

Organization Committee Student Member

CAPnet-CPS CAN-ACN Satellite Symposium (Vancouver, BC)

May 2018

P-PACT (Perception Action Cognition) Conference (Canmore, AB) November 2016
SfN Lethbridge Chapter Poster Symposium (Lethbridge, AB) November 2016

Volunteer & Service

Dark Matters: The Science of Drugs, Presenter October 2019
Telus World of Science NGS Graduate Showcase, Presenter March 2019
Science Fundamentals (SciFun), University of Alberta, Presenter March 2019
Faculty of KSR Open House (University of Alberta), Presenter Sept. 2018, Feb. 2019
Undergraduate Neuroscience Conference (University of Alberta), Judge August 2018
Faculty of Medicine & Dentistry Festival of Health, Presenter May 2018
Telus World of Science Graduate Student Showcase, Presenter May 2018, 2019
Brain Awareness Week (University of Lethbridge), Setup March 2016-17
Let's Talk Science (University of Lethbridge), Presenter June 2014
Operation Minerva (University of Lethbridge), Presenter April 2014

Ad Hoc Reviewer

Experimental Brain Research (2)
Frontiers in Psychology (1)
Journal of Cognitive Neuroscience (1)
PLOS ONE (1)
Journal of Advanced Research (1)
Trends in Cognitive Sciences (1)
Behavioural Brain Research (1)

Invited/Guest Lectures

Synchronizing Eye-Tracking and Motion Capture Data November 2018
PSYCO 104 (Introductory Psychology), University of Alberta

STUDENT SUPERVISION

Keeya Beausoleil ([WISEST](#) Student Summer 2019)
Jared Baker ([publication](#))
Rob Olsen ([publication](#))

TECHNICAL STRENGTHS & EXPERIENCE

Languages in order of familiarity MATLAB, Python, C#, C++, \LaTeX