

## **DR. RALPH S. REDDEN**

St. Francis Xavier University

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[Google Scholar](#)

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Citizenship: Canadian

### **ACADEMIC POSITIONS**

Assistant Professor - Department of Psychology, St. Francis Xavier University, 2023

Adjunct - Department of Psychology and Neuroscience, Dalhousie University, 2022-2027

Postdoctoral Fellow - Department of Psychology, University of Alberta, 2022-23

Visiting Researcher - School of Psychology, University of Aberdeen, 2020-21

- Position/fellowships deferred due to COVID-19

### **EDUCATION**

Doctor of Philosophy - Psychology and Neuroscience, Dalhousie University, 2021

- Certificate in University Teaching and Learning

Master of Science - Psychology, Dalhousie University, 2016

- RADIANT Certificate in Translational NeuroTechnology

Bachelor of Arts (First Class Honours) - Psychology, Dalhousie University, 2013

### **GRANT FUNDING**

*Co-Investigator* (PI - Ray Klein): On the potential for wearable technology in the modelling of vigilance and fatigue for aeronautic applications (\$23 887 - NSERC Engage 2018)

*Associate Investigator* (PI - Ray Klein): AttentionTrip: A portable handheld application for measuring attention (\$24 968 - NSHRF Catalyst 2017)

### **SCHOLARSHIPS, AWARDS & PRIZES**

#### SCHOLARSHIPS & FELLOWSHIPS

NSERC Postdoctoral Fellowship (\$90 000) - 2022-2024

NSERC Doctoral Canada Graduate Scholarship (\$105 000) - 2017-2020

Killam Predoctoral Scholarship (\$90 000) - 2017-2020

Dalhousie University President's Award (\$25 000) - 2017-2019

Nova Scotia Graduate Scholarship Doctoral Award (\$60 000) - 2016-2020

RADIANT NSERC CREATE Graduate Student Scholarship (\$100 000) — 2013-2017  
NSERC Undergraduate Student Research Award (\$7 000) - 2012

#### AWARDS & PRIZES

Certificate of Academic Excellence: Doctoral Dissertation Award - CPA 2022  
President's Graduate Student Teaching Award - Dalhousie University 2021  
Scottish Vision Group Early Career Bursary - 2020  
Experimental Psychology Society Study Visit Grant - 2020  
Mitacs Globalink Research Award - 2020  
NSERC Michael Smith Foreign Study Supplement (Doctoral) - 2020  
Graduate Student Award - Annual Meeting of Psychonomic Society 2019  
Certificate of Academic Excellence: Master's Thesis Award - CPA 2017  
Certificate of Teaching Excellence - Council of Canadian Departments of Psychology 2016  
Graduate Student Presentation Award - International Meeting of Psychonomic Society 2016  
Phi Kappa Pi Joe Ghiz Memorial Award - Dalhousie University 2015  
Dalhousie Student Union Certificate of Distinction Impact Award - 2014  
Phi Kappa Pi Joe Ghiz Memorial Award - Dalhousie University 2014  
D.O. Hebb Master's Post-Graduate Prize - Dalhousie University 2013  
Phi Kappa Pi Joe Ghiz Memorial Award - Dalhousie University 2013  
Most Outstanding Business Proposal - RADIANT NICE 2013  
Faculty of Science Undergraduate Dean's List - Fall 2010-Convocation  
Charles J. Brimer Memorial Scholarship - Dalhousie University 2012  
Dr. Lilyan E. White Prize in Psychology - Dalhousie University 2011

## **SCHOLARLY PUBLICATIONS**

( \* = TRAINEE; OM = OPEN MATERIALS; OD = OPEN DATA )

#### BOOK CHAPTERS

Klein, R. M. & **Redden, R.S.** (2018). Two "inhibitions of return" bias orienting differently.  
Chapter for T. Hubbard (Ed.) Spatial Biases in Perception and Cognition. Cambridge  
University Press.

#### PUBLISHED MANUSCRIPTS

McCormick, C. R. \*, **Redden, R. S.**, & Klein, R. M. (2023). How does exogenous alerting  
impact endogenous preparation on a temporal cueing task. *Visual Cognition*, 1-17. [osf.io/  
cxnzm](https://osf.io/cxnzm) (OD)

Klein, R.M., **Redden, R.S.**, & Hilchey, M.D. (2023). Visual search and the inhibitions of return.  
*Frontiers in Cognition* 2, 12. 10.3389/fcogn.2023.1146511

- Redden, R.S.**, Hilchey, M.D., Aslam, S.\* , Ivanoff, J., & Klein, R.M. (2023). Using speed and accuracy and the Simon effect to dissociate two forms of inhibition of return. *Vision*, 7(1), 1-14. doi.org/10.3390/vision7010025 <https://osf.io/gz4ns/> (OM; OD)
- Redden, R.S.**, Eady, K., Klein, R.M., & Saint-Aubin, J. (2023). Individual Differences in Working Memory Capacity and Visual Search While Reading. *Memory & Cognition*, 51(2), 321–335. doi: 10.3758/s13421-022-01357-4 <https://osf.io/4ctn3/> (OD)
- Redden, R.S.**, Gagliardi, G.A., Williams, C.W., Hassall, C.D., & Krigolson, O.E. (2021). Champ versus Chump: Viewing an Opponent’s Face Engages Attention but Not Reward Systems. *Games*, 12(3), 1-12, doi.org/10.3390/g12030062.
- Redden, R. S.**, MacInnes, W. J., & Klein, R. M. (2021). Inhibition of return: An information processing theory of its natures and significance. *Cortex*, 135, 30-48. doi.org/10.1016/j.cortex.2020.11.009. <https://osf.io/3wqtr/> (OM; OD)
- McCormick, C.R.\* , **Redden, R.S.**, Hurst, A.J., & Klein, R.M. (2019). On the Selection of Endogenous and Exogenous Signals. *The Royal Society for Open Science*, 6(11), 1-10. doi.org/10.1098/rsos.190134. <https://osf.io/ry9vm/> (OM; OD)
- Redden, R. S.**, Hilchey, M. D., & Klein, R. M. (2018). Oculomotor inhibition of return: Evidence against object-centered representation. *Visual Cognition*, 26(9), 719-733. doi:10.1080/13506285.2018.1544598.
- McCormick, C. R.\* , **Redden, R. S.**, Lawrence, M. A., & Klein, R. M. (2018). The independence of endogenous and exogenous temporal attention. *Attention, Perception & Psychophysics*, 80(8), 1885-1891. doi: 10.3758/s13414-018-1575-y
- Redden, R.S.**, d’Entremont, G.\* & Klein, R.M. (2017). Safe or Out: Does the Location of Attention Affect Judgments at First Base in Baseball?. *Canadian Journal of Experimental Psychology*, 71(2), 146-159. doi: 10.1037/cep0000118 (OM)
- Redden, R. S.**, d’Entremont, G.\* , & Klein, R. M. (2017). Further evidence in favor of prior entry from endogenous attention to a location in space. *Attention, Perception, & Psychophysics*, 79(4), 1027-1038. doi: 10.3758/s13414-017-1290-0 (OM)
- Redden, R. S.**, Klages, J., & Klein, R. M. (2017). The effect of scene removal on inhibition of return in a cue-target task. *Attention, Perception and Psychophysics*, 79(1), 78-84. doi:10.3758/s13414-016-1228-y

**Redden, R.S.**, Hilchey, M.D., & Klein, R.M. (2016). Peripheral stimuli generate different forms of inhibition of return when participants make pro- versus anti-saccades to them. *Attention, Perception and Psychophysics*, 78(8), 2283-2291. doi:10.3758/s13414-016-1175-7 (OD)

#### PREPRINTS & SUBMITTED MANUSCRIPTS

Ma, H.L., **Redden, R.S.**, & Hayward, D.A. (2023). *The who and the where: Attention to identities and locations in groups*. Stage 1 Registered Report Accepted In Principle at Attention, Perception & Psychophysics (PP-RR-22-007.R1). [osf.io/wz3n2/](https://osf.io/wz3n2/) (OD)

**Redden, R.S.** & McCormick, C.R.\* (2023). *Integrating open science in the teaching of cognitive research methods: Comparing virtual vs. face-to-face delivery*. Manuscript Under Review at Visual Cognition (VC-SI 13.23). Preprint: <https://psyarxiv.com/bzr82/>

## **TEACHING EXPERIENCE**

Assistant Professor - Department of Psychology, St. Francis Xavier University

Fall 2023 - Introduction to Psychology I - PSYC 101.13 & 101.15

Winter 2023 - Special Topics: Attention - PSYC 387

Winter 2023 - Advanced Topics in Cognition - PSYC 421

Lecturer - Department of Psychology, University of Alberta

Fall 2022 - Recent Advances in Experimental Psychology: Open Science - PSYCH 403

Lecturer - Department of Psychology & Neuroscience, Dalhousie University

Winter 2021 - Research Methods in Attention - PSYO/NESC 3131

Winter 2021 - Experimental Social Psychology - PSYO3082

Fall 2020 - Research Methods in Attention - PSYO/NESC 3131

Winter 2019 - Research Methods in Attention - PSYO/NESC 3131

Winter 2018 - Introduction to Psychology and Neuroscience II. - PSYO 1022

Teaching Assistant - Department of Psychology & Neuroscience, Dalhousie University

Fall 2016 - Statistical Methods I. - PSYO 2501

Fall 2015 - Research Methods in Attention - PSYO/NESC 3131

Winter 2015 - Research Methods in Attention - PSYO/NESC 3131

Fall 2013 - Research Methods in Experimental Psychology - PSYO 2000

2012/2013 - Advanced General Psychology - PSYO 3010

Lab Instructor - Department of Psychology & Neuroscience, Dalhousie University

2011/2012 - Introduction to Psychology & Neuroscience - PSYO 1011/1012

## **STUDENT SUPERVISION**

### INDEPENDENT STUDY

Jack Lukeman (BSc - Psych) - 2023/24  
Lucas Tennen (BA - Psych) - 2022/23  
Andy Croome (BA - Psych) - 2021/22  
Celia Briand (BSc - Psych) - 2020/21  
Olivia Macdonald (BSc - Psych) - 2019/20  
Michelle Clark (BSc - Neuro) - 2018/19  
Brett Feltmate (BA - Psych) - 2015/16  
Colin McCormick (BSc - Psych) - 2015/16  
Ghislain d'Entremont (BSc - Neuro) - 2014/15

### HONOURS THESIS

Veda Haggarty - BSc - Psych) - 2023/24  
Chloe Richardson (BSc - Psych) - 2023/24  
Van Trieu (BA - Psych) - 2021/22  
Kadie MacDonald (BSc - Psych) - 2020/21  
Michelle Clark (BSc - Neuro) - 2019/20  
Sinan Aslam (BSc - Neuro) - 2017/18  
Drake Mustafa (BSc - Neuro) - 2017/18  
Colin McCormick (BSc - Psych) - 2016/17  
Brett Feltmate (BA - Psych) - 2016/17

## **SERVICE**

### INSTITUTIONAL

Department of Psychology Colloquium Committee - 2023-Present  
Women in Scholarship, Engineering, Science & Technology SRP: Supervisor - 2022  
Royce Harder Research Conference Organizational Committee - 2021/22  
Departmental Committee on Equity, Diversity, and Inclusion - 2020-2021  
Graham Goddard Conference Organizational & Review Committee - 2014-2020  
Department of Psychology & Neuroscience 70th Anniversary Events Committee - 2016-2018  
Dalhousie University RADIANT Program Committee Student Representative - 2014-2017  
Dalhousie Student Union Board of Operations - 2012-2014

### SCIENTIFIC

Science Atlantic Psychology Faculty Representative - 2023-Present  
Associate Editor: Journal of European Psychology Students - 2018-2021  
CSBBCS Associate Departmental Representative - 2015-2021  
Journal of Experimental Psychology: Human Perception & Performance - Ad Hoc Reviewer (2)  
Quarterly Journal of Experimental Psychology - Ad Hoc Reviewer (1)  
Journal of General Psychology - Ad Hoc Reviewer (3)  
American Journal of Alzheimer's Disease and Other Dementias - Ad Hoc Reviewer (1)  
Experimental Psychology - Ad Hoc Reviewer (2)  
Consciousness and Cognition - Ad Hoc Reviewer (1)  
Acta Psychologica - Ad Hoc Reviewer (1)  
PLOS One - Ad Hoc Reviewer (1)  
Attention, Perception & Psychophysics - Ad Hoc Reviewer (1)

## **CONFERENCE PROCEEDINGS**

**(\*TRAINEE)**

### INVITED TALKS AND ORGANIZED SYMPOSIA

**Redden, R.S.** (October, 2022). Understanding fundamental aspects, ecological validity, and applications of attention. Invited talk: Cognitive Neuroscience Colloquium Series, University of Alberta, Edmonton, AB.

**Redden, R.S.** (October, 2019). Visuospatial orienting biases: Two inhibitions of return. Invited talk: Cognitive Neuroscience Colloquium Series, University of Alberta, Edmonton, AB.

**Redden, R.S.** (June, 2019). On the capacity and resolution of visual cognition: Using neural and behavioural evidence to examine the limits of information processing. Symposium organized for 29th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, University of Waterloo, Waterloo, ON.

**Redden, R.S. & Smith, D.T.** (July, 2018). On the control of visual attention. Symposium organized for 28th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Memorial University, St. John's, NL.

### SELECTED ORAL PRESENTATIONS

**Redden, R.S., Eady, K., Klein, R.M., & Saint-Aubin, J.** (June, 2021). Individual differences in working memory capacity and visual search in reading. Talk given at 30th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, McGill and Concordia University, Montreal, PQ (Virtual Meeting).

**Redden, R.S., MacInnes, W.J., & Klein, R.M.** (November, 2020). Inhibition of return: An information processing theory of its natures and significance. Talk authored for (given by Klein) at 61st Annual Meeting of the Psychonomic Society, Online Meeting.

**Redden, R.S., Hurst, A.J., & Klein, R.M.** (July, 2018). Using temporal order judgments and colour perception to dissociate inhibitory cueing effects. In R.S. Redden & D.T. Smith (Chairs), On the control of visual attention. Symposium conducted at the joint meeting of the Canadian Society for Brain, Behaviour and Cognitive Sciences and the European Psychological Society, St. John's, NL.

**Redden, R.S., Hilchey, M.D., & Klein, R.M.** (June, 2015). Dissociating performance dynamics in the aftermath of an uninformative cue: Input or output effect? Talk given at 25th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, Carleton University, Ottawa, ON.

SELECTED POSTER PRESENTATIONS

**Redden, R.S.**, Kavyani, M., Christie, J., and Klein, R.M. (November, 2019). Is inhibition of return at the midpoint of simultaneous cues input-based or output-based? Poster presented at 60th Annual Meeting of the Psychonomic Society, Montreal, QC. (*Conference Prize*)

**Redden, R.S.**, Al-Shammary, F.\*, Chiles, T.\*, Kamali, K.\*, Lebel, K.\*, MacDiarmid, K.\*, MacDonald, O.\*, MacIntosh, M.\*, Ross, B.G.\*, Stratton, K.\*, Toba-Oluboka, T.\*, Tse, S.\*, Feltmate, B.T.\*, and McCormick, C.R.\* (June, 2019). Integrating open science practices in the teaching of cognitive research methods. Poster presented at 29th Annual Meeting of the Canadian Society for Brain, Behaviour and Cognitive Science, University of Waterloo, Waterloo, ON.

**Redden, R.S.**, Mustafa, D.\*, Hurst, A.J., and Klein, R.M. (May, 2019). Task-dependent effects of volitional visuospatial orienting on perception. Poster presented at 19th Annual Meeting of the Vision Sciences Society, St. Pete's Beach, FL.

**Redden, R.S.** and Klein, R.M. (May, 2016). Inhibitions of return: Two orienting biases. Poster presented at the International Meeting of Psychonomic Society, Granada, Spain. (*Conference Prize*)