

## NATHAN J. WISPINSKI

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### EDUCATION

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#### University of Alberta

Doctor of Philosophy in Psychology (Expected) 2017 - Present  
Supervisors: Craig S. Chapman & Anthony Singhal

#### University of Alberta

Master of Science in Psychology 2015 - 2017  
Supervisors: Craig S. Chapman & Anthony Singhal  
Master's Thesis: *Modelling movement as an ongoing decision*

#### University of British Columbia

Bachelor of Arts Honours in Psychology, Minor in Commerce 2010 - 2014  
Supervisors: Todd C. Handy & Elizabeth W. Dunn  
4<sup>th</sup> Year Thesis: *Social responsibility increases taxation satisfaction*

### EMPLOYMENT

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#### DeepMind Technologies Ltd.

Research Scientist Intern May 2021 - October 2021  
Supervisors: Patrick M. Pilarski & Matthew M. Botvinick

#### Vision Lab, UBC Psychology, & Action in Complex Environments Lab, UAlberta Kinesiology

Research Assistant (Full-time) May 2014 - August 2015  
Supervisors: James T. Enns & Craig S. Chapman

#### Action in Complex Environments Lab, UAlberta Kinesiology





UARE-Canada Summer Research Intern May 2013 - August 2013  
Supervisor: Craig S. Chapman

### PUBLICATIONS

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\*Authors contributed equally

8. **Wispinski, N.J.**, Stone, S.A., Bertrand, J.K., Ouellette Zuk, A.A., Lavoie, E.B., Gallivan, J.P., & Chapman, C.S. (2021). Reaching for the known unknowns: Rapid reach decisions accurately reflect the future state of dynamic probabilistic information. *Cortex*. doi:10.1016/j.cortex.2021.02.010   
Videos, Data, Code:
7. **Wispinski, N.J.**, Lin, S., Enns, J.T., & Chapman, C.S. (2021). Selective attention to real-world objects drives their emotional appraisal. *Attention, Perception, & Psychophysics*. doi:10.3758/s13414-020-02177-x   
Data, Code, Preregistration:
6. **Wispinski, N.J.**, Gallivan, J.P., & Chapman, C.S. (2018). Models, movements, and minds: Bridging the gap between decision making and action. *Annals of the New York Academy of Sciences*. [The Year in Cognitive Neuroscience series]. doi:10.1111/nyas.13973
5. \*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. doi:10.3819/ccbr.2017.120003

4. Bertrand, J.K., **Wispirski, N.J.**, Mathewson, K.E., & Chapman, C.S. (2018). Entrainment of theta, not alpha, oscillations predictive of the brightness enhancement of a flickering stimulus. *Scientific Reports*, 8. doi:10.1038/s41598-018-24215-3 
3. **Wispirski, N.J.**, Truong, G., Handy, T.C., & Chapman, C.S. (2017). Reaching reveals that best-versus-rest processing contributes to biased decision making. *Acta Psychologica*, 176(2016), 32-38. doi:10.1016/j.actpsy.2017.03.006 
2. Whillans, A.V., **Wispirski, N.J.**, & Dunn, E.W. (2016). Seeing wealth as a responsibility improves attitudes towards taxation. *Journal of Economic Behavior and Organization*, 127(2016), 146-154. doi:10.1016/j.jebo.2016.04.009 
1. Chapman, C.S., Gallivan, J.P., Wong, J.D., **Wispirski, N.J.**, & Enns, J.T. (2015). The snooze of lose: Rapid reaching reveals that losses are processed more slowly than gains. *Journal of Experimental Psychology: General*, 144(4), 844-863. doi:10.1037/xge0000085 

## AWARDS & HONOURS (SELECTED)

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### Scholarships

Ivy A Thomson and William A Thomson Graduate Scholarship, University of Alberta, 2020  
 Izaak Walton Killam Memorial Scholarship, University of Alberta, 2019-2021  
 Alexander Graham Bell Canada Graduate Scholarship Doctoral (CGS-D3), NSERC, 2017-2020  
 Graduate Scholarship Awards, Alberta Gambling Research Institute, 2015-2018  
 Alexander Graham Bell Canada Graduate Scholarship Master's (CGS-M), NSERC, 2015

### Honours & Prizes

Certificate of Academic Excellence (MSc Thesis), Canadian Psychological Association, 2018  
 Best Talk Award, University of Alberta Joseph R. Royce Psychology Research Conference, 2016  
 Certificate of Academic Excellence (Honours Thesis), Canadian Psychological Association, 2014  
 Morris Belkin Prize for Best Honours Thesis, University of British Columbia, 2014  
 Valedictorian for Psychology Graduating Class, University of British Columbia, 2014

### Travel

Student Travel Fellowship, Reinforcement Learning and Decision Making Conference (RLDM), 2015  
 Undergraduate Student Travel Award, Society for Neuroscience (SfN), 2014

## ADDITIONAL RESEARCH TRAINING

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### Deep Learning and Reinforcement Learning Summer School (DLRLSS)

CIFAR & AMII at the University of Alberta July 2019

### Summer School in Computational Sensory-Motor Neuroscience (CoSMo)

University of Minnesota August 2016

### Introductory Workshop on Computational Methods in Neuroscience

Campus Alberta Neuroscience June 2015

### York Centre for Vision Research (CVR) Summer School

York University June 2014

## CONFERENCE PRESENTATIONS (SELECTED)

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9. **Wispirski, N.J.** & Chapman, C.S. (2018, November). A model of reaching movements as a reflection of ongoing decision making. Poster presented at Society for Neuroscience (SfN), San Diego, CA, USA.
8. **Wispirski, N.J.** & Chapman, C.S. (2018, May). Moving as ongoing decision making. Talk 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, Canada.

7. **Wispirski, N.J.**, Bertrand, J.K., Singhal, A., & Chapman, C.S. (2016, November). EEG correlates of evidence accumulation during dynamic discrimination decisions across two spatial locations. Poster presented at Society for Neuroscience (SfN), San Diego, CA, USA.
6. **Wispirski, N.J.**, Bertrand, J.K., Singhal, A., & Chapman, C.S. (2016, May). Evidence accumulation reflected in a parietal EEG signal in discrimination decision making. Poster presented at the International Symposium of the GRSNC: The Neuroscience of Decision-Making, Montreal, QC, Canada.
5. **Wispirski, N.J.**, Madan, C.R., & Chapman, C.S. (2015, June). Independent biases in human decision making from experience revealed by action dynamics. Poster presented at the Reinforcement Learning Decision Making (RLDM) Conference, Edmonton, AB, Canada.
4. **Wispirski, N.J.**, Nip, B.C.C., Enns, J.T., & Chapman, C.S. (2015, May). More than distractor devaluation: The emotional boost of grasping a real object. Poster presented at the Vision Sciences Society (VSS) Conference, St. Pete Beach, FL, USA.
3. **Wispirski, N.J.**, Whillans, A.V., & Dunn, E.W. (2014, November). When wealth increases taxation satisfaction. Poster presented at the Society for Judgment and Decision Making (SJDM) Conference, Long Beach, CA, USA.
2. **Wispirski, N.J.**, Madan, C.R., & Chapman, C.S. (2014, November). The effect of described and experienced information on risky choices in a reaching task. Poster presented at Society for Neuroscience (SfN), Washington, DC, USA.
1. **Wispirski, N.J.**, Truong, G., Handy, T.C., & Chapman, C.S. (2014, June). 5 cents is the new free: Reaching reveals price context effects. Poster presented at the Canadian Psychological Association (CPA) Convention, Vancouver, BC, Canada.

## **TECHNICAL STRENGTHS & EXPERIENCE**

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### **Computer Languages & Software**

Python, MATLAB, R, L<sup>A</sup>T<sub>E</sub>X

### **Experimental Techniques**

Computational modeling, Deep learning, Psychophysics, Reinforcement learning, EEG, Motion tracking, Eye tracking, Field experiments