

Corson N. Areshenkoff

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Education

Queens University	KINGSTON, ONTARIO, CANADA
PhD in Psychology	2017 –
University of Victoria	VICTORIA, BRITISH COLUMBIA, CANADA
MSc in Psychology	2015 – 2016
Thesis: Task-dependent motor representations evoked by spatial words	
BSc in Mathematics	2012 – 2015

Publications

- Karr, J. E., **Areshenkoff, C. N.**, Rast, P., Hofer, S.M., Iverson, G.L., & Garcia-Barrera, M.A. (2018). The Unity and Diversity of Executive Functions: A Systematic Review and Re-Analysis of Latent Variable Studies. *Psychological Bulletin*
- Trafimow, D., Amrhein, V., **Areshenkoff, C. N.**, Barrera-Causil, C., Beh, E.J., Bilgic, Y., ... (2018). Manipulating the alpha level cannot cure significance testing. *Frontiers in Psychology*, 9, 699
- Areshenkoff, C. N.**, Bub, D. N., & Masson, M. E. (2017). Task-dependent motor representations evoked by spatial words: Implications for embodied accounts of word meaning. *Journal of Memory and Language*, 92, 158-169.
- Smart, C. M., Karr, J. E., **Areshenkoff, C. N.**, Rabin, L. A., Hudon, C., Gates, N., ... & Hampel, H. (2017). Non-pharmacologic interventions for older adults with subjective cognitive decline: systematic review, meta-analysis, and preliminary recommendations. *Neuropsychology Review*, 1-13.
- Karr, J. E., **Areshenkoff, C. N.**, Duggan, E. C., & Garcia-Barrera, M. A. (2014). Blast-related mild traumatic brain injury: a Bayesian random-effects meta-analysis on the cognitive outcomes of concussion among military personnel. *Neuropsychology review*, 24(4), 428-444.
- Karr, J. E., **Areshenkoff, C. N.**, & Garcia-Barrera, M. A. (2014). The neuropsychological outcomes of concussion: A systematic review of meta-analyses on the cognitive sequelae of mild traumatic brain injury. *Neuropsychology*, 28(3), 321.
- Karr, J. E., **Areshenkoff, C. N.**, Rast, P., & Garcia-Barrera, M. A. (2014). An empirical comparison of the therapeutic benefits of physical exercise and cognitive training on the executive functions of older adults: A meta-analysis of controlled trials. *Neuropsychology*, 28(6), 829.
- Karr, J. E., Garcia-Barrera, M. A., & **Areshenkoff, C. N.** (2014). Executive functions and intraindividual variability following concussion. *Journal of clinical and experimental neuropsychology*, 36(1), 15-31.

Conference Presentations

- Areshenkoff, C.N.**, Daniel N. Bub, & Michael E.J. Masson (2016). Parallel Encoding of Alternative Action Possibilities Alters the Execution of a Cued Action. Poster presented at the 31st meeting of the Society for the Neuroscience of Decision Making. Montreal, QC.
- Areshenkoff, C.N.** (2015). The Temporal Dynamics of Motor Affordances. Presented at the 31st meeting of the Perceptual Expertise Network. New Orleans, LA.
- Mulligan, B. P., **Areshenkoff, C. N.**, & Smart, C. M. (2015, September). EEG entropy predicts intensively-measured cognitive performance in healthy older adults. In *Psychophysiology* (Vol. 52, pp. S25-S25). 111 River St, Hoboken 07030-5774, NJ USA: Wiley-Blackwell.
- Areshenkoff, C.N.**, Bub, D.N., Masson, M.E.J. (2015). *Embodied representations of word meaning*. Paper presented at the annual meeting of the Canadian Society for Brain, Behaviour, and Cognitive Science. Ontario, Canada.
- Areshenkoff, C.N.**, Karr, J.E., Garcia-Barrera, M.A. (2013). *Performance Patterns on Card Selection during the Iowa Gambling Task: Preliminary Evidence of High Sensitivity to Losses after mTBI [Abstract]* *Journal of the International Neuropsychological Society*, 19 (S2), 75. doi: 10.1017/S1355617713001033

Areshenkoff, C.N., Karr, J.E., Crevier-Quintin, E., Garcia-Barrera, M.A. (2013). *The Benefits of Physical and Cognitive Training Programs on Executive Functions among Older Adults: A Meta-Analytical Comparison*. Poster presented to the Forty-First Annual Meeting of the International Neuropsychological Society, Waikoloa, Hawaii.

Karr, J.E., **Areshenkoff, C.N.,** Evans, J., Jewett, D., Nguyen, K., Tutt, G., & Garcia-Barrera, M.A. (October 20, 2012). *Physical Exercise versus Cognitive Training on Executive Functioning: It's a Tie! A Meta-Analysis of Controlled Trials during Healthy Aging*. Lecture presented at the Forty-First Annual Scientific and Educational Meeting of the Canadian Association on Gerontology, Vancouver, British Columbia.

Karr, J.E., & **Areshenkoff, C.N.** (October 3, 2012). *Meta-Analysis of Controlled Clinical Trials: A Series of Methodological Considerations*. Lecture presented at the Department of Psychology Methods Seminar, University of Victoria, British Columbia.

Grindstaff, T.R., Karr, J.E., **Areshenkoff, C.N.,** Saville, K.A., Alexander, J.E., & Alexander, R.G. (May 26, 2012). *Frontal and Parietal Differences in P300 Amplitude and Latency during a Self-Evaluation Task*. Poster presented at the Twenty-Fourth Annual Convention of the Association for Psychological Science, Chicago, Illinois.

Funding and Awards

National Sciences and Engineering Research Council (NSERC) PGS-D \$21,000 (x3 years)	2017-2020
Queens Graduate Entrance Award \$5,000	2017
University of Victoria Graduate Award \$2,000	2016
University of Victoria Graduate Award \$1,000	2015

Workshops and Summer Schools

Vector Institute Deep Learning and Reinforcement Learning Summer School Toronto, Ontario	July-August 2018
Computational Sensorimotor Neuroscience (CoSMo) Summer School Minneapolis St. Paul, Minnesota	August 2017
Temporal Dynamics of Learning Center (TDLC) Summer School San Diego, California	August 2015

Skills

Programming: Several years experience in R, Python, Matlab/Psychtoolbox, and Latex, as well as a passing familiarity with C++.

Statistics: Bayesian statistics, multi-level modelling, meta-analysis, spherical/directional statistics, functional data analysis.

Projects

spdm

R package for the analysis of symmetric, positive-definite matrices.

MSMVSampEn

R package for computing multi-scale multivariate sample entropy of biological signals.

solitaiRe

R package implementing the Solitaire encryption algorithm developed by Bruce Schneier and described in Neil Stephenson's *Cryptonomicon*.
