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

Areshenkoff, C. N., Bub, D. N., & Masson, M. E. (In preparation). Analysis and interpretation of motion tracking in cognitive science.

Karr, J. E., **Areshenkoff, C. N.**, Rast, P., Hofer, S.M., Iverson, G.L., & Garcia-Barrera, M.A. (Submitted). The Unity and Diversity of Executive Functions: A Systematic Review and Re-Analysis of Latent Variable Studies.

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: Its 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.

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

grasp (in progress)
R package for the preprocessing and analysis of three dimensional motion tracking data.

igt (in progress)
R/Stan package for the simulation/estimation of reinforcement learning models of the Iowa Gambling Task.

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*.