

Dr. Nicholas P. Brosowsky

Department of Psychology and Neuroscience
Duke University
417 Chapel Drive, Durham, NC 27708-0086

<https://nbrosowsky.github.io>
nicholaus.brosowsky@duke.edu

Research Areas of Interest

Cognitive control, attention, memory, skill learning, mind wandering, and music cognition

Education

- | | |
|-----------|--|
| 2014-2019 | The Graduate Center of the City University of New York (CUNY)
Ph.D. in Psychology – Cognition, Language, and Development
Thesis: <i>Memory-guided selective attention: An instance theory of automatic attentional control</i> (2019), https://academicworks.cuny.edu/gc_etds/3327/ |
| 2012-2014 | University of Manitoba (Winnipeg, MB Canada)
M.A. in Psychology – Brain and Cognitive Sciences
Thesis: <i>Attentional capture by sound disappearance</i> (2014) |
| 2009-2012 | University of Manitoba (Winnipeg, MB Canada)
B.A. (Honours) in Psychology
Thesis: <i>The scale illusion revisited: musical expertise and hidden melody recognition</i> (2012) |

Professional Experience

- | | |
|-----------|--|
| 2019-2020 | Postdoctoral research associate
Duke University, Durham, NC
Supervisors: Dr. Paul Seli & Dr. Tobias Egner |
| 2014-2019 | Graduate Research Associate
The Graduate Center, CUNY
Supervisor: Dr. Matthew Crump |
| 2012-2014 | Graduate Research Associate
University of Manitoba
Supervisor: Dr. Todd Mondor |

2011-2012 **Undergraduate Research Associate**
 University of Manitoba
 Supervisor: Dr. Todd Mondor

Publications

- Crump, M.J.C., Lai, W., & **Brosowsky, N.P.** (2019), Instance theory predicts information theory: Episodic uncertainty as a determinant of keystroke dynamics. *Canadian Journal of Experimental Psychology/Revue canadienne de psychologie expérimentale*, 73(4), 203.
- Brosowsky N.P.**, & Crump, M.J.C. (2018), Memory-guided selective attention: Single experiences with conflict have long-lasting effects on cognitive control. *Journal of Experimental Psychology: General*, 147(8), 1134-1153.
- Alards-Tomalin, D., **Brosowsky, N.P.** & Mondor, T.A. (2017), Auditory statistical learning: Predictive frequency information affects the deployment of contextually mediated attentional resources. *Journal of Cognitive Psychology*, 29(8), 977-987.
- Brosowsky N.P.**, & Parshina, O. (2017), Using the QALMRI Method to Scaffold Reading of Primary Sources in A. Schwartz, C. Shane-Simpson, P.J. Brooks, & R. Obeid (Eds.) *How We Teach Now: The GSTA Guide to Student-Centered Teaching* (pp. 311-328). Retrieved from the Society for the Teaching of Psychology web site: <http://teachpsych.org/ebooks/>
- Crump, M.J.C., **Brosowsky N.P.**, & Milliken, B. (2017), Reproducing the location-based context-specific proportion congruent effect for frequency unbiased items: A reply to Hutcheon & Spieler (2016). *Quarterly Journal of Experimental Psychology*, 70(9), 1792-1807.
- Brosowsky N.P.**, & Crump, M.J.C. (2016), Context-specific attentional sampling: Intentional control as pre-requisite for contextual control. *Consciousness and Cognition*, 44, 146-160.
- Brosowsky N.P.**, & Mondor, T.A. (2016), Multistable perception of ambiguous melodies and the role of musical expertise. *The Journal of the Acoustical Society of America*, 140(2), 866-877.
- Brosowsky, N.P.**, & Mondor, T.A. (2014). Attentional capture by sound disappearance. In P. Bello, M. Guarini, M. McShane, & B. Scassellati (Eds.), *Proceedings of the 36th Annual Conference of the Cognitive Science Society* (pp. 1946-1951). Austin, TX: Cognitive Science Society.

Manuscripts Submitted for Publication (Preprints)

Brosowsky, N.P. & Crump, M.J.C., Contextual recruitment of selective attention can be updated via changes in task-relevance. *Preprint*, <https://nbrosowsky.github.io/papers/2019-CSPC.pdf>

Brosowsky, N.P., Degutis, J., Esterman, M. Smilek, D., & Seli, P., Motivation, mind wandering, and time-on-task. *Preprint*, <https://nbrosowsky.github.io/papers/2020-motivation.pdf>

Brosowsky, N.P. & Seli, P., Mind wandering impedes explicit but not implicit sequence learning. *Preprint*, <https://nbrosowsky.github.io/papers/2020-implicit.pdf>

Brosowsky, N.P., Smith, A.P., Schooler, J., & Seli, P., The influence of task-difficulty on thought constraint *Preprint*. <https://nbrosowsky.github.io/papers/2020-fmt.pdf>

Brosowsky, N.P., Smith, A.P., Schooler, J., & Seli, P., Dissociating the constraint and task-relatedness dimensions of mind wandering. *Preprint*. <https://nbrosowsky.github.io/papers/2020-dissociating.pdf>

Brosowsky, N.P., Parshina, O., Locicero, A., & Crump, M.J.C., Teaching undergraduate student to read empirical articles: An evaluation and revision of the QALMRI method, *Preprint*. <https://nbrosowsky.github.io/papers/2020-qalmri.pdf>

Edwards, E., Liu, Y., Ruisz, D., **Brosowsky, N.P.**, & Wupperman, P., Emotional schemas and psychoemotional functioning: Introduction and evaluation of an integrated model across two independent samples. *Preprint*,

Smith, A.P., **Brosowsky, N.P.**, Schooler., J.W., and Seli, P. Testing predictions of the dynamic framework of mind wandering. *Preprint*.

Manuscripts in Preparation

Brosowsky, N.P., Smilek D., Smith A., and Seli, P. On the relation between spontaneous thought and post-traumatic stress disorder symptomology in undergraduates. *Data collected and manuscript in preparation*.

Crump M.J.C. and **Brosowsky, N.P.**, Exploring the keystroke dynamics of deception. *Data collected and manuscript in preparation*.

Smith, A.C., **Brosowsky, N.P.**, Seli, P., Smilek, D., Motivation and thought guidance. *Data collected and manuscript in preparation*.

Conference Presentations

Parshina, O., & **Brosowsky, N.P.** (October 2019), *Using the QALMRI method to scaffold reading and writing an empirical article*. Poster presented at the Society for Teaching Psychology's 18th Annual Conference on Teaching, Denver, CO.

Brosowsky, N.P. & Crump, M.J.C. (November 2018), *You should hate this movie! Detecting concealed attitudes of online persuaders*. Poster presented at the 59th annual meeting of the Psychonomic Society, New Orleans, LA.

Crump, M.J.C. (chair) & **Brosowsky, N.P.** (November 2018), *Instances and information: An instance theory account of sensitivity to uncertainty in natural text production*. In, *Language I*, The 48th Annual Meeting of The Society for Computers in Psychology, New Orleans, LA.

Brosowsky, N.P. & Crump, M.J.C. (November 2017), *Same context, different control: Flexibly shifting between context-specific control settings*. Poster presented at the 58th annual meeting of the Psychonomic Society, Vancouver, BC, Canada.

Brosowsky N.P. & Crump, M.J.C. (March 2017), *Learning to selectively ignore distracting information*. Poster presented at the 2017 annual meeting of the Eastern Psychological Association, Boston, MA.

Brosowsky N.P. & Crump, M.J.C. (November 2016), *Long(er)-term item-specific Gratton effects*. Poster presented at the 57th annual meeting of the Psychonomic Society, Boston, MA.

Brosowsky N.P., Behmer, L.P. & Crump, M.J.C. (May 2016), *How typists talk to their fingers: Evidence for word-level verbal control of skilled action sequences*. Poster presented at International Meeting of the Psychonomic Society, Granada, Spain.

Crump, M.J.C. & **Brosowsky N.P.** (May 2016), *Context-Specific Proportion Congruent Effects for Frequency Unbiased Items: Novel Extensions and Analyses of Reproducibility*. Poster presented at International Meeting of the Psychonomic Society, Granada, Spain.

Brosowsky N.P., & Crump, M.J.C. (March 2016), *Contextual control over stimulus-response sets*. Poster presented at the 2016 annual meeting of the Eastern Psychological Association, New York, NY.

Brosowsky N.P., & Crump, M.J.C. (November 2015), *Contextual control of attentional sampling: Exploring the role of volition*. Poster presented at the 56th annual meeting of the Psychonomic Society, Chicago, IL.

Brosowsky N.P., & Crump, M.J.C. (March 2015), Stimulus-driven attentional cuing of attentional control settings: Evidence for generalization of item-specific control in a Flanker task. In Kelly Doedert (chair) in *Cognitive papers: Attention and Perception*. The 2015 annual meeting of the Eastern Psychological Association, Philadelphia, PA.

Brosowsky N.P. & Mondor, T.A. (July 2014). *Attentional capture by sound disappearance*. Poster presented at 36th Annual Conference of the Cognitive Science Society, Quebec City, QC, Canada.

Brosowsky N.P. & Mondor, T.A. (November 2012). *The scale illusion revisited: Hidden melody recognition and musical expertise*. Poster presented at the annual meeting of the Auditory Perception Cognition and Action, Minneapolis, MN.

Awards, Distinctions and Fellowships

- | | |
|-----------|---|
| 2018 | <p>University Fellowship Award, The Graduate Center, CUNY</p> <p>The University Fellowship Award recognizes excellent accomplishments and is given annually to one Psychology student within each training area.</p> |
| 2018 | <p>Doctoral Student Research Grant, The Graduate Center, CUNY</p> <p>Role: Principal Investigator</p> <p>Project Title: Slow musical change deafness</p> |
| 2018-2019 | <p>Writing Across the Curriculum Fellowship, The Graduate Center, CUNY</p> |
| 2017 | <p>Scholarship of Teaching and Learning Research Grant, The Society for the Teaching of Psychology</p> <p>Role: Principal Investigator</p> <p>Project Title: Using the QALMRI method to scaffold the reading of primary sources</p> |
| 2017 | <p>Psychology Travel Award, The Graduate Center, CUNY</p> |
| 2016 | <p>Doctoral Student Research Grant, The Graduate Center, CUNY</p> <p>Role: Principal Investigator</p> <p>Project Title: Memory-guided selective attention: Single experiences with conflict have long-lasting effects on cognitive control</p> |
| 2014-2019 | <p>Graduate Center Fellowship, The Graduate Center, CUNY</p> |

- 2013-2014 **Alexander Graham Bell Graduate Scholarship Award**, National Sciences and Engineering Research Council of Canada
- 2012-2013 **University of Manitoba Graduate Fellowship**, University of Manitoba
- 2012 **Canadian Psychological Association: Certificate of Academic Excellence**, University of Manitoba. Awarded annually to the best undergraduate honours thesis.
- 2012 **The Ten Have Research Award**, University of Manitoba
The Ten Have Award is awarded annually to the student in 4th year honours whose thesis is judged to be the most outstanding that year.
- 2011 **Psychology Undergraduate Research Experience (PURE) Award**, University of Manitoba
Includes funding for 4 months of full-time employment in a laboratory under direct supervision of a Psychology faculty member.

Teaching Experience

Brooklyn College of the City University of New York, NY

Cognitive Psychology (instructor of record), Spring 2018
 Experimental Psychology (instructor of record), Spring 2018
 Experimental Psychology (instructor of record), Fall 2018
 Cognitive Psychology (instructor of record), Summer 2017
 Experimental Psychology (instructor of record), Spring 2017
 Experimental Psychology (instructor of record; two sections), Fall 2016
 Experimental Psychology (instructor of record; two sections), Spring 2016
 Experimental Psychology (instructor of record), Fall 2015
 Experimental Psychology (instructor of record), Spring 2015
 Experimental Psychology (instructor of record), Fall 2014

University of Manitoba, Winnipeg, MB Canada

Introduction to Psychology (instructor of record; two sections), Summer 2014
 Measurement and Assessment (lab instructor), Fall/Winter 2013-2014
 Introduction to Psychology (teaching assistant), Fall/Winter 2012-2013
 Research in Cognitive Psychology (teaching assistant), Fall/Winter 2012-2013

Private Music Instructor, Winnipeg, MB Canada

Café Music School (owner/manager/instructor), 2009-2014

Private Instructor, 2001-2009

Professional Development

- 2019 Writing Fellows Professional Development Workshop II
Hostos Community College, CUNY
Bronx, NY

- 2018 Writing Fellows Professional Development Workshop
Hostos Community College, CUNY
Bronx, NY

- 2016 The Scholarship of Teaching and Learning Writing Workshop
Society for the Teaching of Psychology
Decatur, GA

- 2016 15th Neural Computation and Psychology Workshop
Contemporary Neural Network Models: Machine Learning, Artificial Intelligence,
and Cognition
Philadelphia, PA

Technical Skills

Data Analysis:	R, Matlab/GNU Octave, SPSS, JASP, Python
Experimental Design:	HTML/JavaScript/CSS, LiveCode, E-Prime, PsychoPy
Front-End Web Development:	HTML, JavaScript, CSS
Other:	Adobe Audition, Adobe Photoshop, Adobe Illustrator

Ad Hoc Peer Reviewer

Behavior Research Methods
Canadian Journal of Experimental Psychology/Revue canadienne de psychologie expérimentale
Experimental Psychology
Journal of Experimental Child Psychology
Perceptual and Motor Skills
Quarterly Journal of Experimental Psychology