

Anna Leshinskaya

Curriculum Vitae

Department of Psychology
University of Pennsylvania
425 S. University Ave, Stephen A. Levin Bldg.
Philadelphia, PA, 19104

email alesh@sas.upenn.edu
website <http://web.sas.upenn.edu/alesh>

Education

- PhD** 2009—2015
Psychology
Harvard University, Cambridge, MA

Thesis: *Principled neural partitions among aspects of artifact and action concepts.*
Committee: Prof. Alfonso Caramazza (supervisor), Prof. Susan Carey, Prof. Marius Peelen, Prof. Joshua Greene
- Bachelor of Arts, Honors** 2004—2008
Cognitive Science
Carleton University, Ottawa, Canada
Thesis: *Children's representational understanding in moving word and false word tasks.*
Supervisor: Prof. Deepthi Kamawar
- Visiting Student 2006—2007
Edinburgh University, Edinburgh, UK

Academic Employment

- Post-Doctoral Fellow** June 2015—present
Center for Cognitive Neuroscience, University of Pennsylvania
Supervisor: Prof. Sharon L. Thompson-Schill
- Assistant in Neuropsychology** Sept. 2008—Sept. 2009
Prof. Denise Klein, Neuropsychology Department, Montreal Neurological Institute, Montreal, Canada
Assisted with pre-operative PET & fMRI and cognitive testing of neurosurgery patients
- Research Assistant** May 2008—Sept. 2009
Prof. Natalie Phillips, Centre for Research on Human Development, Concordia University, Montreal, Canada

Manuscripts

Leshinskaya, A., & Thompson-Schill, S.L. (in press). From the structure of experience to concepts of structure: how the concept 'cause' applies to objects and events. *Journal of Experimental Psychology: General*.

Leshinskaya, A., Wurm, M. F., & Caramazza, A. (in press). Concepts of actions and their objects. In M. Gazzaniga, G. R. Mangun, & D. Poeppel. *The Cognitive Neurosciences, 6th edition*.

Leshinskaya A., Bajaj, M., & Thompson-Schill, S.L. (invited revision). Implicit binding between predictive relations. *Cognition*.

Leshinskaya, A. & Thompson-Schill, S.L. (invited revision). Transformation of event representations along middle temporal gyrus. *Cerebral Cortex*.

Leshinskaya A., Lambert, E. & Thompson-Schill, S.L. (under review). Algebraic patterns as ensemble representations.

Leshinskaya, A., & Caramazza, A. (submitted). Why or what? Representations of the outcomes of accidental actions in posterior parietal cortex.

Leshinskaya, A. & Thompson-Schill, S.L. (submitted). Statistical learning reflects inferences about unique predictive relations.

All manuscripts available by request

Publications

Leshinskaya, A. & Thompson-Schill, S.L. (2018). Inferences about uniqueness in statistical learning. In T.T. Rogers, M. Rau, X. Zhu, & C. W. Kalish (Eds.), *Proceedings of the 40th Annual Meeting of the Cognitive Science Society* (pp 2020-2025). Austin, TX: Cognitive Science Society.

Leshinskaya, A., Contreras, J.M., Caramazza, A. & Mitchell, J.P. (2017). Neural representations of belief concepts: A representational similarity approach to social semantics. *Cerebral Cortex*, 27 (1): 344-357.

Leshinskaya, A., & Caramazza, A. (2016). For a cognitive neuroscience of concepts: Moving beyond the grounding issue. *Psychonomic Bulletin & Review*, 23(4), 991–1001.

Leshinskaya, A., & Caramazza, A. (2015). Abstract categories of functions in anterior parietal lobe. *Neuropsychologia*, 76, 27–40.

Leshinskaya, A. & Caramazza, A. (2014). Nonmotor aspects of action concepts. *Journal of Cognitive Neuroscience*, 26(12), 2863–2879.

Leshinskaya A. & Caramazza A. (2014). Organization and Structure of Conceptual

Representations. V. Ferreira, M. Goldrick, & M. Miozzo (Eds.) The Oxford handbook of language production. Oxford: Oxford University Press.

Published Conference Abstracts

Leshinskaya, A. & Thompson-Schill, S.L. (2018). Higher order structure in visual statistical learning. *Journal of Vision*, 18 (10), p 262.

Leshinskaya, A. & Thompson-Schill, S.L. (2017). Structured knowledge and novel object kinds can be inferred from visual event streams. *Journal of Vision*, 17 (10), p 492.

Leshinskaya, A., & Caramazza A. (2015). Visual search speed is influenced by differences in shape arbitrariness. *Journal of Vision*, 15 (12), p 1165.

Invited Talks and Selected Conference Presentations

Leshinskaya, A. (2018). How relations among events inform concepts of objects. Talk presented at the Cognitive Neuroscience Tea, Dec 3, Johns Hopkins University, Baltimore MD.

Leshinskaya, A. & Sharon L. Thompson-Schill (2018). Inferences about uniqueness in statistical learning. Talk presented at the Cognitive Computational Neuroscience Conference, September 5 – 8, Philadelphia, PA

Leshinskaya, A. (2018). Action concepts. Talk presented at the Kavli Summer Institute in Cognitive Neuroscience, June 8-10, Resort at Squaw Creek, Olympic Valley, CA.

Leshinskaya, A. (2018). From the structure of experience to concepts of structure. Talk presented at the Cognition Seminar Brown Bag, Cognitive, Linguistic & Psychological Sciences, March 9, Brown University.

Leshinskaya, A., Contreras J.M., Caramazza A. & Mitchell J.P. (2017). Representations of belief concepts and the neural organization of abstract semantics. Talk presented at the meeting of the Society for Neuroscience, November 11-15, Washington, DC

Leshinskaya, A. & Caramazza A. (2014). Abstract categories of functions in anterior parietal lobe. Talk presented at the Rovereto Workshop on Concepts, Actions and Objects, May 10 2014, Rovereto, Italy.

Teaching & Supervision

Teaching Fellow

Sept—Dec 2013

Prof. Daniel Gilbert, Psychological Science, Psychology Department, Harvard University

Feb—May 2012

Prof. Alfonso Caramazza, Cognitive Neuroscience, Psychology Department, Harvard University

June—July 2011

Prof. Alfonso Caramazza, Windows into the Structure of the Mind and Brain,
Harvard Summer Abroad Program, Trento, Italy

Student Supervision

Mira Bajaj, summer research fellowship & honors thesis
Jeni Stiso, graduate rotation
Cristina H. Leon, independent study & summer research fellowship
Domonique Roberts-Mack, independent study
Alan Rozet, research assistant
Isobel Green, research assistant
Gabbie Giugliano, research assistant

Awards

Research Grants

2018 - 2019

John Templeton Foundation/Summer Seminars in Neuroscience and Philosophy
The Need for Patterns: Spontaneous Statistical Computation and its Role in Cognition.
\$10,800

2014 - 2015

Mind, Brain, and Behavior Graduate Student Research Grant
Concepts of functions and artifacts.
\$5,600

Fellowships and Awards

Scholarship to attend Summer Seminar in Neuroscience and Philosophy, Duke University	2018
Scholarship to attend Center for Brains, Minds and Machines (MIT) Summer Course	2016
Concepts, Actions and Objects Workshop Abstract Award	2014
Natural Sciences and Engineering Council (NSERC) Post-Graduate Scholarship	2010-2014
NSERC Alexander Graham Bell Canada Graduate Scholarship (declined)	2009
NSERC Undergraduate Student Research Award	2008
Queen Elizabeth II Undergraduate Scholarship	2004-2008
Claude Bissell Undergraduate Scholarship	2004-2008

Professional Memberships

Society for Neuroscience; Vision Sciences Society; Cognitive Science Society; Cognitive Neuroscience Society

Ad hoc reviewing

Cerebral Cortex; Cognitive Psychology; Journal of Cognitive Neuroscience; Journal of Neuroscience; Scientific Reports; NeuroImage; Cognitive Science Society

Service

Updated 2/3/19

Member of Organizing Committee

Council for Women of Penn Psychology

2017—present

Founder, Neuwrite Philadelphia

Community of scientists and writers seeking to improve science communication skills

2015—present

Member of Executive Committee,

Harvard Graduate Student Canadian Club

2013—2015

Organizer, Concepts Seminar

Workshop funded by the Graduate School of Arts and Sciences, Harvard University

2012—2015

Member of Board of Directors

MIT Outing Club

2012—2015

Dudley House Fellow

Graduate School of Arts and Sciences, Harvard University

2011—2013