

Gary Lupyan

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Education

2007	Ph.D. Carnegie Mellon University and the Center for the Neural Basis of Cognition. Dissertation title: The Label Feedback Hypothesis: Linguistic Effects on Visual Processing. Supervisor: James L. McClelland.
2005	M.S. Cognitive Psychology. Carnegie Mellon University
2002	B.A. Cognitive Science. <i>Summa cum Laude</i> Cornell University

Professional Experience

2016-2017	Visiting Scholar, Max Planck Institute for Psycholinguistics.
2016-	Associate Professor of Psychology, University of Wisconsin-Madison.
2010-2016	Assistant Professor of Psychology, University of Wisconsin-Madison.
2008-2010	IGERT Postdoctoral Fellow. University of Pennsylvania. Supervisors: Sharon Thompson-Schill and Daniel Swingley
2008	Research Affiliate. University of California: Merced
2008	Visiting Scholar. Max Planck Institute for Psycholinguistics, Nijmegen
2007-2008	Postdoctoral Researcher and Part-Time Lecturer. Supervisor: Michael Spivey. Cornell University
2004-2007	Teaching assistant. Department of Psychology, Carnegie Mellon University
2003-2007	Graduate Student. Department of Psychology and Center for the Neural Basis of Cognition, Pittsburgh, PA
2002-2003	Research Associate. Supervisor: James McClelland, Center for the Neural Basis of Cognition, Pittsburgh, PA.

Selected Professional Honors and Awards

- Vilas Associate (2013)

- APS “Rising Star” (2011)
- APA Division of Experimental Psychology New Investigator Award (2008)
- IGERT Postdoctoral Fellowship, University of Pennsylvania
- National Science Foundation Graduate Fellow
- Marr Prize Nominee for Best Student Paper (Cognitive Science Society)

Invited Talks:

- 2017. University of Connecticut. Psychological Sciences colloquium
- 2017. Minnesota Symposium on Child Psychology
- 2017. Radical Anthropology Group. University College London.
- 2017. Max Planck Institute for the Science of Human History, Jena.
- 2017. Justus-Liebig University - Gießen. Department Colloquium.
- 2017. University of Antwerp. Mental Imagery and Cognitive Penetration Workshop.
- 2017. University of Zurich. Department of Linguistics Colloquium.
- 2016. Haifa University.
- 2016. Tel Aviv University. Psychology Colloquium.
- 2016. École normale supérieure, Paris. Lingua Colloquium.
- 2016. Donders Institute for Brain, Cognition, & Behavior. Formal Colloquium.
- 2016. Max Planck Inst. Psycholinguistics. Linguistic Diversity Colloquium.
- 2016. Max Planck Inst. Psycholinguistics. Social Effects in Lang. Processing and Lang. Evoln.
- 2016. College of William and Mary. Epistemology and Cognition.
- 2016. UC Berkeley. Cognitive Science Colloquium.
- 2015. Carnegie Mellon University. Psychology Colloquium.
- 2015. University of California Berkeley. Gallant Lab.
- 2015. Stanford University. Cognition and Language Workshop.
- 2014. New York University Center for Mind, Brain, & Consciousness. Debate.
- 2014. Rochester University. Brain & Cognitive Sciences Colloquium.
- 2014. Berkeley University. Big Data in Psychology Workshop.
- 2014. U. Penn (Wharton). Facilitating the Creation and Transfer of Knowledge.
- 2014. Harvard University. Mind, Brain, Behavior Conversations.
- 2014. Harvard University. Dept. of Philosophy.
- 2014. University of Cincinnati. Philosophy Colloquium.
- 2014. Georgetown University Round Table Linguistic Relativity Symposium.
- 2014. University of Maryland-College Park. Cognitive Science Colloquium.
- 2013. Keio University, Tokyo. Sound Symbolism Workshop.
- 2013. University of California-San Diego. Dept. of Cognitive Science.
- 2013. Franklin & Marshall College. Psychology Colloquium.
- 2013. B.F. Skinner Lecture. ABAL.
- 2013. University of Iowa. Department Colloquium.
- 2012. University of Edinburgh: LEC Master Class.
- 2012. Bangor University, Wales. Department Colloquium.
- 2012. Indiana University. Department Colloquium.

- 2012. Yale University. CogLunch series
- 2012. Keio University, Tokyo. Sound Symbolism Workshop
- 2012. Brain Talk Series Public Lecture. San Sebastian, Spain
- 2012. Konrad Lorenz Institute. Origins of Communication Workshop
- 2012. Bern University. Bern Linguistics Circle
- 2012. Leiden University.
- 2012. Max Planck Institute for Psycholinguistics, "Relations in Relativity"
- 2011. Meeting of the Perceptual Expertise Network
- 2011. University of Belgrade. Department of Psychology
- 2011. Oxford University. Department Colloquium
- 2010. University of Illinois. Urbana Champaign
- 2010. Yale University. Scholl Lab
- 2010. SUNY Stony Brook. Zelinsky Lab
- 2010. Northwestern University. Cognitive Science Program
- 2010. University of Novi Sad, Serbia. Department of Psychology
- 2009. Swarthmore College. Psychology Department
- 2009. University of Edinburgh: Unit on Language Evolution and Computation
- 2009. Max Planck Institute for Psycholinguistics, Language and Cognition Group
- 2009. MossRehab
- 2009. University of Delaware. Papafragou Lab
- 2009. Lehigh University. Cognition and Language Group
- 2008. Rochester University. Brain and Cognitive Sciences
- 2008. New York University. Marcus Lab
- 2008. Mind, Technology, and Society Lecture Series: University of California: Merced
- 2008. National Institutes of Health: The Laboratory of Brain and Cognition
- 2008. University of Memphis. Psychology Department
- 2008. Indiana University. Robert Goldstone Lab
- 2008. Max Planck Institute for Psycholinguistics, Language and Cognition Group
- 2007. Boston College, Interdisciplinary Affective Science Lab
- 2007. Max Planck Institute for Psycholinguistics, Language and Cognition Group.
- 2006. *FriSem* Cognitive Seminar Series. Stanford University Department of Psychology

Professional Activities

Organized Symposia and Workshops:

Lupyan, G. & Goldstone, R. Beyond the Lab: Using Big Data to Discover Principles of Psychology. Psychonomic Society 2017 Leading Edge Workshop. Madison, WI.

Casasanto, D., & Lupyan, G. (2016). Non-arbitrariness of the sign: A new frontier in language research. (D. Dingemanse, S. Goldin-Meadow, K. Emmorey participating. *Meeting of the Association for Psychological Science*.

Lupyan, G. & Dale, R. (2015). *Big Questions in Cognitive Science*. Boulder, CO.

Lupyan, G. (2013). Is perception cognitively penetrable? A philosophically satisfying and empirically testable reframing. Speakers: Dustin Stokes, Rasha Abdel Ragman, Fiona MacPherson, Robert Goldstone. Symposium presented at *The 35th Annual Conference of the Cognitive Science Society*.

Lupyan, G. (2013). Is perception cognitively penetrable? A philosophically satisfying and empirically testable reframing. Speakers: Dustin Stokes, Fiona MacPherson, Chaz Firestone, Gary Lupyan. Symposium presented at *The European Society for Philosophy and Psychology*.

Lupyan, G. (2011). Interactions Between Vision and Language: The state of the art. Symposium at the 17th Meeting of the European Society for Cognitive Psychology. Speakers: Gerry Altmann, Eiling Yee, Pia Knoeferle, Emre Ozgen, Gary Lupyan.

Lupyan, G. (2006). Symposium: Beyond Whorf: How Language Affects Thought. Speakers: Lera Boroditsky, Gary Lupyan, Robert Goldstone, Terry Regier, Debi Roberson. In *Proceedings of The 28th Annual Conference of the Cognitive Science Society* (p. 2660). Mahwah, NJ, Lawrence Erlbaum.

Ad hoc reviewing:

- Annual Conference of the Cognitive Science Society, Conference on the Evolution of Language, Cognitive Psychology, Vision Science, Psychonomic Bulletin & Review, QJEP, PNAS, Connection Science, Cognitive Science, Developmental Science, Child Development, Psychological Review, JEP: G, JEP:LMC, Journal of Memory and Language, Cognition, Language and Cognitive Processes, AP&P, Perception, Emotion, Journal of Cognitive Neuroscience, PLoS ONE, Frontiers series, Current Biology, Philosophy of Science, Cambridge University Press, Proceedings of the Royal Society, Behavioral and Brain Sciences, Language Learning, Trends in Cognitive Sciences; others

Association Memberships—Past and Present:

- Cognitive Science Society, Society for Research in Child Development, Linguistic Society of America, Vision Sciences Society, Associate Member: Behavioral and Brain Sciences, Fellow of the Psychonomic Society, American Psychological Society, European Society for Cognitive Psychology, European Society for Philosophy and Psychology

Other:

2014-2017 Associate Digital Content Editor for the Psychonomic Society

2017- Evolution of Language Conference Program Committee

2015- Associate Editor for *Journal of Language Evolution*

2014- Cognitive Science Society Program Committee

Selected Media Attention

- Spoken language could tap into 'universal code'. *Science* August 12, 2015
- How did our ancestors develop the very first language? *New Scientist* August 7, 2015
- Süddeutsche Zeitung, "Gerne auch mal ohne Logik" (*At times without logic*), December 23, 2013.
- "Language boosts invisible objects into visual awareness", *The Guardian*, Aug, 2013
- "Words prompt us to notice what our subconscious sees", *New Scientist*, August, 2013
- Wahrnehmung: Mit den Ohren sieht man besser. *Der Spiegel*, August, 2013
- "Does Language Shape What we See?" *National Geographic*, August, 2013
- "Talking to yourself may actually be a good idea." *Time*, April, 2012
- "Saying 'car keys' out loud may help find them." *Daily Telegraph*. July 2012
- "Powers of Babel" *New Scientist*, December 10, 2011
- *Brian Lehrer Newshour*, September 14, 2010
- "Beyond communication: the other use for language." *New Scientist*, September, 2010
- *Scientific American*, *The Globe and Mail*, *CBS*, *Consumer Affairs*, etc. May-June 2010 (re Emberson et al., 2010)
- "Bigger languages are also simpler ones." *BBC World News*
- *Russian Newsweek*, January 2010.
- "Babelicious! Bigger languages are also simpler ones." *The Economist*, January, 2010
- "Did Language Evolve as a Learning Aid?" *Scientific American Mind*, May 2008
- "When Language can Hold the Answer" *New York Times*, April 22, 2008

Grants

Ongoing Research Support

2017-2019 - NSF – PAC (Role: PI)

"The effect of nameability on categorization" (\$563,460 Total).

2017-2019 – NIH – NICHD (Role: PI)

"The impact of word learning on children's category induction" (\$420,750 Total).

2017-2019 – UW2020 (Role: PI)

“From Simple Words to Complex Ideas: Understanding the Role of Language in Learning” (\$297,128 Total).

2017-2019 – Sloan Foundation (Role: Co-PI)

“Mind Tools: How Computer Programming Languages Impact Science and Thought” (\$750,000 Total).

2013-2018 - NSF – PAC (Role: PI)

“Mechanisms of verbal effects on human categorization” (\$496,195 Total).

2013-2018 - NSF – INSPIRE (Role: PI)

“Selection as an organizing process: from molecules to languages” (\$799,997 Total); Co PIs: Rick Dale, Suzanne Sindi, David Ardell (UC Merced); Russell Gray (U. Auckland, MPI);

2014-2017 - Templeton Foundation – Metaknowledge Project Grant (Role: Co-PI) (\$86,000)

“Using iterated explanations to understand what makes theories satisfying”; Co PI: Jacob Foster (UCLA)

2014-2017 - Templeton Foundation – Metaknowledge Project Grant (Role: Co-PI) (\$86,000).

“Uncovering priors in academic fields”

Completed Support

2014-2015. Wisconsin Alumni Research Fund (\$23,645). Role: PI

“Cognitive consequences of electronic writing”

2013-2015. Vilas Associate Award; (\$59,668); 7/1/2013 - 6/30-2015

“Role of (Un)motivated mappings in language” (Role: PI)

2013-2014. Wisconsin Alumni Research Fund; (\$17,287); 7/1/13 – 6/30/14

“Language as adaptations” (Role: PI)

2011-2014. Wisconsin Alumni Research Fund; (\$25,961); 6/1/11-7/1/14

“Cognitive control factors in second language learning” (Role: PI)

Publications

Journal publications:

Samaha, J., Boutonnet, B., Postle, B. & Lupyan, G. (accepted). How prior knowledge prepares perception: Prestimulus oscillations carry perceptual expectations and influence early visual responses. *Scientific Reports* [BioArXiv Preprint](#).

Lupyan, G., & Winter, B. Language is more abstract than you think, or, why aren't languages more iconic? (forthcoming). *Proceedings of the Royal Society B*.

Edmiston, P., Perlman, M., Lupyan, G. (2018). Repeated imitation makes human vocalizations more word-like. *Proceedings of the Royal Society B*. <http://dx.doi.org/10.1098/rspb.2017.2709>

Perlman, M., Lupyan, G. (2018). [People Can Create Iconic Vocalizations to Communicate Various Meanings to Naïve Listeners](#). *Scientific Reports*. 8:2634. doi:10.1038/s41598-018-20961-6.

Lupyan, G., Lewis, M. (2017). From words-as-mappings to words-as-cues: The role of language in semantic knowledge. *Language, Cognition, and Neuroscience*. <https://doi.org/10.1080/23273798.2017.1404114>

Lupyan, G. (2017). [How reliable is perception?](#) *Philosophical Topics* 45(1) 81-106

Perry, L.K., Perlman, M., Winter, B., Massaro, D., Lupyan, G. (2017). [Iconicity in the speech of children and adults](#). *Developmental Science*. DOI: 10.1111/desc.12572

Lupyan, G. (2017). [Changing what you see by changing what you know: the role of attention](#). *Frontiers in Psychology*, 8. <https://doi.org/10.3389/fpsyg.2017.00553>

Winter, B., Perlman, M., Perry, L., Lupyan, G. (2017). [Which words are most iconic? Iconicity in English sensory words](#). *Interaction Studies*. 18(3) 443–464.

Lupyan, G. (2017). [Objective influences of knowledge on visual perception](#). *Journal of Experimental Psychology: Human Perception & Performance*. 43(4), 794-806. <http://dx.doi.org/10.1037/xhp0000343>.

Edmiston, P. & Lupyan, G. (2017). [Visual interference disrupts visual knowledge](#). *Journal of Memory and Language*. 92 (2017) 281–292

Perry, L.K. & Lupyan, G. (2017). [Recognizing a zebra from its stripes and the stripes from "zebra": the role of verbal labels in selecting category relevant information](#). *Language, Cognition and Neuroscience*. 10.1080/23273798.2016.1154974

- Lupyan, G. & Dale, R.A. (2016). [Why are there different languages? The role of adaptation in linguistic diversity](#). *Trends in Cognitive Sciences*. 20(9), 649–660.
<http://dx.doi.org/10.1016/j.tics.2016.07.005>
- Goldstone, R.L. & Lupyan, G. (2016). Harvesting Naturally Occurring Data to Reveal Principles of Cognition. [Harvesting naturally occurring data to reveal principles of cognition](#). *Topics in Cognitive Science*, 8, 548-568. DOI 10.1111/tops.12212
- Lupyan, G. (2015). [The paradox of the universal triangle: concepts, language, and prototypes](#). *Quarterly Journal of Experimental Psychology*. 10.1080/17470218.2015.1130730.
- Wood, A., Lupyan, G., Sherrin, S., Niedenthal, P. (2015). [Altering Sensorimotor Feedback Disrupts Perceptual Discrimination of Facial Expressions](#). *Psychonomic Bulletin & Review*. DOI 10.3758/s13423-015-0974-5.
- Lupyan, G. (2015). [The centrality of language in human cognition](#). *Language Learning*. 10.1111/lang.12155
- Lupyan, G. (2015). [Object knowledge changes visual appearance: Semantic effects on color afterimages](#). *Acta Psychologica*. 161, 117-130.
- Dingemanse, M., Blasi, D.E., Christiansen, M.H., Lupyan, G., Monaghan, P. (2015). [Arbitrariness, iconicity and systematicity in language](#). *Trends in Cognitive Sciences*. 19(10), 603–615.
- Perry, L.K., Perlman, M. & Lupyan, G. (2015). [Iconicity in English and Spanish and its relation to lexical category and age of acquisition](#). *PLoS ONE*, 10(9), e0137147.
<http://doi.org/10.1371/journal.pone.0137147>
- Lupyan, G. & Clark, A. (2015). [Words and the World: Predictive coding and the language-perception-cognition interface](#). *Current Directions in Psychological Science*. 24(4) 279–284.
- Perlman, M., Dale, R.A.C., & Lupyan, G. (2015). [Iconicity can Ground the Creation of Vocal Symbols](#). *Royal Society Open Science*. 2: 150152.
- Edmiston, P. & Lupyan, G. (2015). [What makes words special? Words as unmotivated cues](#). *Cognition*, 143, (93-100).
- Boutonnet, B. & Lupyan, G. (2015). [Words jump-start vision: a label advantage in object recognition](#). *The Journal of Neuroscience*. 32(25), 9329-9335.
- Lupyan, G. & Bergen, B. (2015). [How language programs the mind](#). *TopiCS in Cognitive Science*. 10.1111/tops.12155

- Lupyan, G. (2015). [Cognitive penetrability of perception in the age of prediction: Predictive systems are penetrable systems](#). *Review of Philosophy and Psychology*. doi:10.1007/s13164-015-0253-4
- Lupyan, G., & Casasanto, D. (2015). [Meaningless words promote meaningful categorization](#). *Language and Cognition*, 7(2), 167–193. <http://doi.org/10.1017/langcog.2014.21>
- Perry, L.K., & Lupyan, G. (2014). [The role of language in multi-dimensional categorization: Evidence from transcranial direct current stimulation and exposure to verbal labels](#). *Brain and Language* 135: 66-72.
- Kranjec, A., Lupyan, G., & Chatterjee, A. (2014). [Categorical Biases in Perceiving Spatial Relations](#). *PLoS ONE*, 9(5), e98604. doi:10.1371/journal.pone.0098604
- Mayor, J., Gomez, P., Chang, F., & Lupyan, G. (2014). [Connectionism coming of age: legacy and future challenges](#). *Frontiers in Language Sciences*, 5, 187. doi:10.3389/fpsyg.2014.00187
- Lupyan, G. (2013). [The difficulties of executing simple algorithms: why brains make mistakes computers don't](#). *Cognition*. 129(3), 615–636. doi:10.1016/j.cognition.2013.08.015
- Perry, L. K., & Lupyan, G. (2013). [What the online manipulation of linguistic activity can tell us about language and thought](#). *Frontiers in Behavioral Neuroscience*, 7, 122. doi:10.3389/fnbeh.2013.00122
- Lupyan, G. & Ward, E.J. (2013). [Language can boost otherwise unseen objects into visual awareness](#). *Proceedings of the National Academy of Sciences*. doi:10.1073/pnas.1303312110
- Lupyan, G., & Mirman, D. (2013). [Linking language and categorization: evidence from aphasia](#). *Cortex*, 49(5), 1187–1194. doi:10.1016/j.cortex.2012.06.006
- Lupyan, G. (2012). [Language augmented prediction](#). *Frontiers in Theoretical and Philosophical Psychology*, 3, 422. doi:10.3389/fpsyg.2012.00422
- Lupyan, G. (2012). [Linguistically modulated perception and cognition: the label-feedback hypothesis](#). *Frontiers in Cognition*, 3, 54. doi:10.3389/fpsyg.2012.00054
- Lupyan, G., Mirman, D., Hamilton, R., Thompson-Schill, S.L., (2012). [Categorization is modulated by transcranial direct current stimulation over left prefrontal cortex](#). *Cognition*. 124(1), 36–49. doi:10.1016/j.cognition.2012.04.002.
- Dale, R. A., & Lupyan, G. (2012). [Understanding the origins of morphological diversity: The linguistic niche hypothesis](#). *Advances in Complex Systems*, 15(3), 1150017–1–1150017–16. doi:10.1142/S0219525911500172
- Lupyan, G., Thompson-Schill, S.L. (2012). [The evocative power of words: Activation of concepts by verbal and nonverbal means](#). *Journal of Experimental Psychology: General*: 141(1): 17-186.

- Lupyan, G., Swingley, D., (2011). [Self-directed speech affects visual processing](#). *The Quarterly Journal of Experimental Psychology*. 1–18. doi:10.1080/17470218.2011.647039.
- Lupyan, G. & Spivey, M.J. (2010). [Redundant spoken labels facilitate perception of multiple items](#). *Attention, Perception, & Psychophysics*. 72(8): 2236-2253
- Emberson, L., Lupyan, G., Webb, A., Spivey, M.J., & Goldstein, M. (2010). [Overheard Cell-Phone Conversations: When Less Speech is More Distracting](#). *Psychological Science*. 21(10) 1383–1388.
- Lupyan, G. & Spivey, M.J. (2010). [Making the Invisible Visible: Verbal but Not Visual Cues Enhance Visual Detection](#). *PLoS ONE* 5(7): e11452. doi:10.1371/journal.pone.0011452
- Lupyan, G., Thompson-Schill, S.L., Swingley, D. (2010). [Conceptual penetration of visual processing](#). *Psychological Science*, 21(5): 682-691.
- Lupyan, G. & Dale, R.A. (2010). [Language Structure is Partly Determined by Social Structure](#). *PLoS ONE*. 5(1): e8559. doi:10.1371/journal.pone.0008559.
- Lupyan, G. (2009). [Extracommunicative Functions of Language: Verbal Interference Causes Selective Categorization Impairments](#). *Psychonomic Bulletin & Review*, 16(4), 711-718.
- Lupyan, G. (2008). [The Conceptual Grouping Effect: Categories Matter \(and named categories matter more\)](#). *Cognition*, 108: 566-577.
- Lupyan, G. & Spivey, M.J. (2008). [Perceptual processing is facilitated by ascribing meaning to novel stimuli](#). *Current Biology*, 18: R410-R412.
- Lupyan, G. (2008). [From Chair To 'Chair:' A Representational Shift Account Of Object Labeling Effects On Memory](#). *Journal of Experimental Psychology: General*, 137(2): 348-369.
- Rakison, D.H. & Lupyan, G. (2008). [Developing object concepts in infancy: An associative learning perspective](#). *Monographs of the Society for Research in Child Development* 73(1): 1-110.
- Lupyan, G., Rakison, D.H., McClelland, J.L. (2007). [Language is not just for talking: redundant labels facilitate learning of novel categories](#). *Psychological Science* 18(12): 1077-1083.

Preprints, manuscripts under review and in preparation:

- Forder, L. & Lupyan, G. (under review). Hearing color words changes color perception: Facilitation of color discrimination by verbal and visual cues. [PsyArXiv Preprint Available](#).

Sulik, J., & Lupyan, G. (in revision). Perspective taking in a novel signaling task: effects of world knowledge and contextual constraint. *Journal of Experimental Psychology: General*

Perry, L., Lewis, M., & Lupyan, G. (in revision). Shaping semantic networks with transcranial direct current stimulation.

Perlman, M., Jing, P.Z., & Lupyan, G. (in revision). Hearing is not required for vocal communication of magnitude.

Zettersten, M. & Lupyan, G. (under review). Finding categories through words: More nameable features improve category learning. *Psychological Science*.

Wendorf, A., & Lupyan, G. (in revision). The more you hear, the more you see: Meaning and context in crossmodal integration.

Guptasarma, I., Edmiston, P., & Lupyan, G. (in revision). Long-term and short-term contextual influences on word meanings: the case of gendered clothing.

Zettersten, M. & Lupyan, G. (in preparation) Category-based statistical learning: nameability and explicit knowledge.

Chapters and Commentaries:

Perry, L.K. & Lupyan, G. (2017). Clarifying the label-categorization link. *Language, Cognition and Neuroscience*. 10.1080/23273798.2017.1328124

Lupyan, G. (2016). [Not even wrong. The “it’s just X” fallacy](#). Commentary on Firestone & Scholl, Cognition does not affect perception: evaluating the evidence for ‘top-down’ effects. *Behavioral and Brain Sciences*, 39 <https://doi.org/10.1017/S0140525X15002721>

Bergmann, T., Dale, R., & Lupyan, G. (2016). [Socio-demographic influences on language structure and change: not all learners are the same](#). Commentary on Christiansen & Chater. The Now-or-Never Bottleneck: A Fundamental Constraint on Language. *Behavioral and Brain Sciences*. 39:e66. doi: 10.1017/S0140525X15000710.

Wood, A., Lupyan, G., Niedenthal, P. (2016) [Why do we need emotion words in the First Place? Commentary on Lakoff](#). *Emotion Review*. doi: 10.1177/1754073915595103

Casasanto, D., & Lupyan, G. (2015). [All Concepts are Ad Hoc Concepts](#). In E. Margolis & S. Laurence (Eds.), *Concepts: New Directions*. Cambridge: MIT Press.

Lupyan, G. & Dale, R. (2015). [The role of adaptation in understanding linguistic diversity](#). In *The Shaping of Language*. R. LaPolla & R. De Busser (Eds.).

- Lupyan, G. (2014). [Language Augments Cognition and Perception by Providing High-Level Hypotheses](#) *IEEE* 11:1, pp. 7-8. Commentary on Katerina Pastra's Autonomous Acquisition of Sensorimotor Experiences: Any Role for Language?
- Lupyan, G. & Perry, L. (2014). [Labeling effects on cognitive development](#). In *The Sage Encyclopedia of Language Development*. SAGE Publications, Inc. DOI: dx.doi.org/10.4135/9781483346441
- Lupyan, G. (2012). [What do words do? Towards a theory of language-augmented thought](#). In B. H. Ross (Ed.), *The Psychology of Learning and Motivation* (Vol. 57, pp. 255–297). Academic Press.
- Lupyan, G. (2010). [Attention: Cognitive influences](#). In E. Goldstein (Ed.), *Encyclopedia of perception*. (pp. 72-75). Thousand Oaks, CA: SAGE Publications, Inc. doi: <http://dx.doi.org/10.4135/9781412972000.n30>
- Rakison D.H. & Lupyan, G. (2008). [The development of modeling or the modeling of development?](#) Commentary on Rogers, & McClelland. Semantic Cognition. *Behavioral and Brain Sciences*, 31(6): 726
- Lupyan, G. (2008). [Taking symbols for granted? Is the discontinuity between human and non-human minds the product of external symbol systems?](#) Commentary on Penn, Povinelli, & Holyoak. Darwin's mistake: Explaining the discontinuity between human and nonhuman minds. *Behavioral and Brain Sciences*, 31(2): 140-141.
- Lupyan, G. & Vallabha, G. (2005). [Processing is shaped by multiple tasks: There is more to rules and similarity than Rules-to-Similarity](#). Commentary on Pothos. The Rules versus Similarity Distinction. *Behavioral and Brain Sciences* 28 (1): 28-28.
- McClelland, J.L. & Lupyan, G. (2002). [Double dissociations never license simple inferences about underlying brain organization, especially in developmental cases](#). Commentary on Thomas & Karmiloff-Smith. Are developmental disorders like cases of adult brain damage? Implications from connectionist modelling. *Behavioral and Brain Sciences* 25(6): 763-764.

Refereed Full Conference Papers:

- Zettersten, M., & Lupyan, G. (2018). Using language to discover categories: More nameable features improve category learning. Poster to be presented at the 11th *International Conference on the Evolution of Language*.

- Edmiston, P., Perlman, M., Lupyan, G. (2017). [Creating words from iterated vocal imitations](#). Talk presented at the *39th Annual Meeting of the Cognitive Science Society*.
- Perlman, M., Paul, J.Z., & Lupyan, G. (2015). Congenitally deaf children generate iconic vocalizations to communicate magnitude. Talk presented at the *37th Annual Meeting of the Cognitive Science Society*.
- Perry, L.K., Perlman, M., Lupyan, G. (2015) Iconicity in English Vocabulary and its Relation to Toddlers' Word Learning. Talk presented at the *37th Annual Meeting of the Cognitive Science Society*.
- Monaghan, P., Lupyan, G., Christiansen, M. The Systematicity of the Sign: Modeling Activation of Semantic Attributes from Nonwords. (2014) Paper presented at the *36th Annual Meeting of the Cognitive Science Society*.
- Perlman, M., Dale, R.A.C., Lupyan, G. (2014). Iterative Vocal Charades: The Emergence of Conventions in Vocal Communication. Paper presented at *The 10th International Conference on the Evolution of Language*.
- Edmiston, P. & Lupyan, G. (2013). Verbal and Nonverbal Cues Activate Concepts Differently, at Different Times. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 2243-2248). Austin, TX: Cognitive Science Society.
- Bergmann, T., Dale, R., & Lupyan, G. (2013). The Impact of Communicative Constraints on the Emergence of a Graphical Communication System. *The 35th Annual Conference of the Cognitive Science Society Meeting of the Cognitive Science Society*.
- Lupyan, G., Casasanto, D. (2012). The Meaning of Nonsense Words. *The Ninth Evolution of Language Conference*. Kyoto, Japan.
- Lupyan, G. (2011). Labels are neither features nor invitations to categories: the label feedback hypothesis. Part of the SRCD Symposium: "The Whorfian Infant? Effects of Words on Category Learning." Montreal, QC.
- Lupyan, G. (2011). Words Affect Basic Visual Processing Through Top-down Feedback. Part of the SRCD Symposium: How Language Shapes Perception: Bottom-up vs. Top-down Interactions. Montreal, QC.
- Lupyan, G. & Thompson-Schill, S.L. (2010). The evocative power of words: Activation of visual information by verbal versus nonverbal cues. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (pp. 883-888). Austin, TX: Cognitive Science Society.

- Lupyan, G. & Swingley, D. (2010). Self-directed speech affects visual processing. In S. Ohlsson & R. Catrambone (Eds.), *Proceedings of the 32nd Annual Conference of the Cognitive Science Society* (pp. 1210-1215). Austin, TX: Cognitive Science Society.
- Lupyan, G. (2010). Beyond Communication: Language Modulates Visual Processing. *The Eighth International Conference on the Evolution of Language*.
- Dale, R. & Lupyan, G. (2010). Squiggle: Large-Scale Social Emergence of Simple Symbols. *The Eighth International Conference on the Evolution of Language*.
- Lupyan, G. & Spivey, M. (2008). Now You See It, Now you Don't: Verbal but not visual cues facilitate visual object detection. In B. C. Love, K. McRae, & V. M. Sloutsky (Eds.), *Proceedings of the 30th Annual Conference of the Cognitive Science Society* (pp. 963-968). Austin, TX: Cognitive Science Society.
- Lupyan, G. & Dale, R. (2008). Form-Meaning Compositionality Derives from Social and Conceptual Diversity. In A.D.M. Smith, K. Smith, & R.F. i Cancho, *The Seventh International Conference on the Evolution of Language*. (pp. 464-466).
- Lupyan, G. (2008). Verbal Interference Causes Categorization Impairments. In A.D.M. Smith, K. Smith, & R.F. i Cancho, *The Seventh International Conference on the Evolution of Language*. (pp. 462-464).
- Lupyan, G. (2007). Reuniting Categories, Language, and Perception. In D.S. McNamara & J.G. Trafton (Eds.), *Proceedings of the 29th Annual Conference of the Cognitive Science Society* (pp. pp. 1247-1252). Austin, TX: Cognitive Science Society.
- Lupyan, G. & Rakison, D.H. (2006). What Moves in a Mysterious Way? A domain-general account of learning about animacy and causality. In D.S. McNamara & J.G. Trafton (Eds.), *Proceedings of The 28th Annual Conference of the Cognitive Science Society*. (pp. 525-530) Austin, TX: Cognitive Science Society.
- Lupyan, G (2006). Labels Facilitate Learning of Novel Categories. In A. Cangelosi, A.D.M. Smith & K.R. Smith (Eds.) *The Evolution of Language: Proceedings of the 6th International Conference*. (pp. 190-197). Singapore: World Scientific.
- Lupyan, G (2005). Carving Nature at its Joints and Carving Joints into Nature: How Labels Augment Category Representations. In A. Cangelosi, G. Bugmann & R. Borisjuk (Eds.) *Modelling Language, Cognition and Action: Proceedings of the 9th Neural Computation and Psychology Workshop* (pp. 87-96). Singapore: World Scientific.

Lupyan, G. & , McClelland, J.L. (2003). Did, Made, Had, Said: Capturing Quasi-Regularity in Exceptions. In *Proceedings of the 25th Annual Conference of the Cognitive Science Society* (pp. 740-745). Mahwah, NJ: Lawrence Erlbaum.

Lupyan, G. & Christiansen, M. H. (2002). Case, Word Order and Language Learnability: Insights from Connectionist Modeling. In *Proceedings of the 24th Annual Conference of the Cognitive Science Society* (pp. 596-560). Mahwah, NJ: Lawrence Erlbaum. [Nominated for Marr Prize for Best Student Paper].

Refereed Conference Posters and Talk Abstracts:

Sulik, J. & Lupyan, G., Success in signaling: the effect of feedback to signaler and receiver. To be presented at the *11th International Conference on the Evolution of Language*

Lewis, M. & Lupyan, G., What 50 Million Drawings Can Tell Us About Shared Meaning. To be presented at the *11th International Conference on the Evolution of Language*

Lupyan, G., Wendorf, A., Berscia, L.M., Paul, J. Core Knowledge or language-augmented cognition? The case of geometric reasoning. To be presented at the *11th International Conference on the Evolution of Language*

Edmiston., Perlman, M., Lupyan., G. The Emergence of Words from Vocal Imitations. Talk Presented at the *First Meeting of the Cultural Evolution Society*. Jena, Germany.

Lupyan, G., Paul, J.Z., & Wendorf, A. (2017). The role of language in reasoning about geometric concepts. Talk presented at the *Meeting of the Psychonomic Society*.

Forder, L., Lupyan, G. (2017). Facilitation of color discrimination by verbal and visual cues. Talk presented at the *Meeting of the Vision Science Society*.

Perry, L.K., Perlman, M., Winter, B., Lupyan, G., Massaro, D.W. (2016). The role of iconicity in child-directed speech. Poster presented at the Boston University Child Language Conference (BUCLD).

Lupyan, G. (2016). Objective influences of knowledge on visual perception. Talk presented at the *Meeting of the Vision Sciences Society*.

- Perry, L.K., Perlman, M., Winter, B., Lupyan, G., Massaro, D.W. (2016). *Early learned words sound like what they mean*. Talk presented at the 20th biennial the International Conference on Infant Studies, New Orleans, LA.
- Lupyan, G. & Sulik, J. (2016). The evolution of redundancy in a global language. Talk presented at *The 11th International Conference on the Evolution of Language*.
- Edmiston, P., Perlman, M., Lupyan, G. (2016). The fidelity of iterated vocal imitation. Talk presented at *The 11th International Conference on the Evolution of Language*.
- Sulik, J. & Lupyan, G. (2016). Failures of perspective taking in an open-ended signaling task. Talk presented at *The 11th International Conference on the Evolution of Language*.
- Winter, B.; Perry, L.K., Perlman, M., Lupyan, G. (2016). The structure of iconicity in the English lexicon. Talk presented at *The 11th International Conference on the Evolution of Language*.
- Perry, L.K., Perlman, M., Winter, B., Lupyan, G., Massaro, D. (2016). Early learned words are more iconic. Talk presented at *The 11th International Conference on the Evolution of Language*.
- Wendorf, A., & Lupyan, G. (2015) Effects of Context and Meaning on Multisensory Integration. Poster presented at the *2015 Meeting of the Psychonomics Society*. Chicago, IL
- Lupyan, G., Boutonnet, B., & Edmiston, P. Words as priors: How language programs the mind. Talk presented at the *2015 Meeting of the Psychonomics Society*. Chicago, IL
- Zettersten, M. & Lupyan, G. The role of language in categorical statistical learning. Poster presented at the *2015 Meeting of the Psychonomics Society*. Chicago, IL
- Zettersten, M. & Lupyan, G. (2015). Language Augments Relational Reasoning. Talk presented at the *2015 Meeting of the Cognitive Development Society*.
- Lupyan, G. (2015). What language is for: A view from cognition. Talk presented at the *4th biennial Protolanguage Conference*, Rome, Italy.
- Perlman, M. & Lupyan, G. (2015). The vocal iconicity challenge! (2015). Talk presented at the *4th biennial Protolanguage Conference*, Rome, Italy.
- Perlman, M., Paul, J.Z., & Lupyan, G. (2015). Congenitally deaf children generate iconic vocalizations to communicate magnitude. Talk presented at the *4th biennial Protolanguage Conference*, Rome, Italy.
- Perry, L.K., Perlman, M., & Lupyan, G. (2015). *Iconicity in spoken languages and its relation to ease of word learning*. Talk presented at the *4th biennial Protolanguage Conference*, Rome, Italy.

- Wood, A., Niedenthal, P., & Lupyan, G. (2015). Enhanced facial feedback improves low-level emotion perception. Poster presented at the 2015 Meeting of the Society for Personality and Social Psychology.
- Boutonnet, B. & Lupyan, G. (2015). Words jump-start vision: a label advantage in object recognition. Talk presented at the meeting of the *Vision Sciences Society*.
- Edmiston, P. & Lupyan, G. (2015). Visual interference disrupts visual and only visual knowledge. Talk presented at the meeting of the *Vision Sciences Society*.
- Zettersten, M., Paul, J., & Lupyan, G. (2015). Language Augments Relational Reasoning: The Effect of Late Exposure to a Standardized Language. Poster presented at *Society for Research in Child Development*.
- Lupyan, G. (2014). Words do not map onto concepts; Words help create them. *Meeting of the Psychonomics Society*, Special Session on Ad Hoc Cognition, organized by Casasanto, D., & Lupyan, G.
- Perry, L. & Lupyan, G. (2014). How Language Dynamically Structure our Concepts: Evidence from Transcranial Direct Current Stimulation. *Meeting of the Psychonomics Society*. Select Speaker Award.
- Perlman, M., Lupyan, G., & Dale, R. (2014). Iterative vocal charades: Iconicity in the generation of vocal conventions. Talk presented at the 6th *Conference of the International Society for Gesture Studies (ISGS)*, San Diego, California.
- Edmiston, P. & Lupyan, G. (2014). Words as unmotivated cues. Talk presented at *The 10th International Conference on the Evolution of Language*.
- Bergmann, T., Dale, R.A.C., Lupyan, G. (2014). Informational Structure of an Emerging Communication System is Shaped by its Environment. Talk presented at *The 10th International Conference on the Evolution of Language*.
- Lupyan, G. (2013). Is 798 an Even Number? The Gradedness of Formal Categories in Human Cognition. Talk presented at the *Annual Meeting of the Psychonomic Society*.
- Perry, L.K. & Lupyan, G. (2013) The role of language in dimensional categorization: evidence from transcranial direct current stimulation. Poster presented at the *Annual Meeting of the Psychonomic Society*.

- Perry, L.K. & Lupyan, G. (2013). Narrowing in on what's relevant: Perturbing Wernicke's area perturbs task-relevant representations. Poster presented at the 2013 meeting of the Society for the Neurobiology of Language.
- Lupyan, G. (2013). Whorf for the 21st century: From interactive processing to linguistic relativity. Talk presented at *The 35th Annual Conference of the Cognitive Science Society*.
- Perlman, M., Dale, R., Lupyan, G. (2013). Vocal Charades: The Emergence of Conventions in Vocal Communication. Poster presented at *The 35th Annual Conference of the Cognitive Science Society Meeting of the Cognitive Science Society*.
- Lupyan, G. (2013). Semantic effects on color afterimages. Talk presented at the *Meeting of the Vision Sciences Society*.
- Lee, Y.L.; Lupyan, G.; Roberts-Kedes, D.; Mattar, M.G; Aguirre, G.K.; Thompson-Schill, S.L. (2013). Automatic categorization of letter identity in extrastriate visual cortex. Poster presented at *Human Brain Mapping*.
- Lupyan, G. (2012). What Do Words Do? Toward a Theory of Language Augmented Thought. Part of a session at *Psychonomics* on mechanisms of Linguistic Relativity (together with Dedre Gentner, Barbara Malt, and Kay Bock).
- Lupyan, G. (2012). The effects of verbal labels on cognition and perception: Toward a theory of language augmented thought. Talk presented at *13th Neural Computation and Psychology Workshop*. San Sebastian, Spain.
- Yee, E., Lupyan, G., Thompson-Schill, S.L. (2011) Linguistic Information Can Cause (Forbidden) Eye Movements To Irrelevant Objects. Poster presented at the *52nd Meeting of the Psychonomic Society*. Seattle, WA.
- Lupyan, G. (2011). Representations of Basic Geometric Shapes are Created Ad-Hoc. Poster presented at the *Concepts, Actions, and Objects Workshop*. Rovereto, Italy.
- Lupyan, G. (2011). Activation of visual information by verbal versus nonverbal cues. Poster presented at the *Meeting of the Vision Sciences Society*.
- Ward, E.J. & Lupyan, G. (2011). Linguistic Penetration of Suppressed Visual Representations. Poster presented at the *Meeting of the Vision Sciences Society*.
- Lupyan, G., Mirman, D., Hamilton, R., Thompson-Schill, S.L. (2010). Linking language, cognitive control, and categorization: Evidence from aphasia and transcranial direct current stimulation. Poster presented at the *Second Conference on the Neurobiology of Language*. San Diego, CA.

- Kranjec, A., & Lupyan, G. (2010) Implicit verbal categories modulate spatial perception. *Journal of Vision*. 10 (7), p. 1328.
- Lupyan, G., Kraemer, D., Prabhakaran, R., & Thompson-Schill, S.L. (2009) Memory for Pictures is Influenced by Verbal Labels and Encoding Strategy. *Fiftieth Annual Meeting of the Psychonomic Society*.
- Wojnowicz, M., Lupyan, G., Ferguson, M., Spivey, M. (2009). Subattractor Dynamics in Real-Time Mental Processing. *Thirty-First Meeting of the Cognitive Science Conference*.
- Lupyan, G., Kravitz, D. (2009). Collapsing Content and Process: Mental Representations are not Static and the Brain is not a Computer. *Thirty-First Meeting of the Cognitive Science Conference*.
- Lupyan, G., (2009). How words affect visual processing. Symposium. The Interface between Language and Thought: Current Directions, Moderators: Roberson, D., Majid, A. . *Thirty-First Meeting of the Cognitive Science Conference*.
- Lupyan, G., Thompson-Schill, S.L., Swingley, D. (2009). The penetration of visual representations by conceptual categories. *Meeting of the Vision Sciences Society*.
- Emberson, L., Lupyan, G., Webb, A., Goldstein, M., Spivey, M.J. (2008). Why cell phones are irritating: Different types of speech yield different attentional demands. *Forty-Ninth Annual Meeting of the Psychonomic Society*.
- Lupyan, G., & Spivey, M. (2008). Auditory but not visual cues facilitate visual object detection [Abstract]. *Journal of Vision*, 8(6):842, 842a, <http://journalofvision.org/8/6/842/>, doi:10.1167/8.6.842.
- Lupyan, G. (2007). Conceptual grouping effects in visual search: categories matter (and named categories matter more) [Abstract]. *Journal of Vision*, 7(9):1063, 1063a, <http://journalofvision.org/7/9/1063/>, doi:10.1167/7.9.1063.
- Lupyan, G., McClelland, J.L. (2006). Emergence of quasiregularity in the English past tense as captured by connectionist networks. *Linguistic Structure and Connectionist Models: How Good is the Fit?* Symposium with Jay McClelland, Jeff Elman, Adele Goldberg, and Luigi Burzio. *Linguistic Society of America Meeting*: Albuquerque, NM.
- Lupyan, G. (2006). Labels Helps us Learn but Makes us Forget. Symposium: Beyond Whorf: How Language Affects Thought. In *Proceedings of The 28th Annual Conference of the Cognitive Science Society* (p. 2660). Mahwah, NJ, Lawrence Erlbaum.

Lupyan, G. (2005). When Naming Means Forgetting: Verbal Classification Leads to Worse Memory. In *Proceedings of the Twenty-Seventh Annual Meeting of the Cognitive Science Society* (p. 2518). Mahwah, NJ: Lawrence Erlbaum.

Lupyan, G. (2005). Labels Facilitate Learning of Novel Categories. Poster presented at *Words and the World: How Words Capture Human Experience*: Lehigh University.

Lupyan, G. (2004). Language is Not Just for Talking: how linguistic labels help in representing the world. Paper presented at *The Fifth International Conference on the Evolution of Language*: Leipzig, Germany.

Lupyan, G. & , McClelland, J.L. (2004). Why Irregulars Make Sense: simulating the emergence of exceptions. Paper presented at *The Fifth International Conference on the Evolution of Language*: Leipzig, Germany.

Lupyan, G., & Rifkin, I. (2003). Dynamics of Applause: Modeling group phenomena through agent interaction Poster presented at the *25th Annual Conference of the Cognitive Science Society*.

Lupyan, G. & Christiansen, M. H. (2002). The Case of Cases and Word Order: The Role of Syntactic Cues in the Evolution and Acquisition of Language. Paper presented at *The Fourth International Conference on the Evolution of Language*. Cambridge, MA.

Undergraduate and Graduate Teaching

UW Madison

Graduate methods: *Programming for Psychologists / Automation technique for behavioral research*

Undergraduate lecture: *The Structure of Human Thought: Concepts, Language, and Culture*

Graduate seminar: *Topics in Perception: Top-down effects*.

Undergraduate seminar *Language and Thought*

Cornell University

2007. *Language and Thought*

Carnegie Mellon University

2007. *Language and Thought*

2005. Teaching Assistant for *Biological Foundations of Psychology* (2005)

2003. Teaching Assistant and Section Leader for *Introduction to Psychology*

Mentoring

Graduate Students

Pierce Edmiston (2012-present)

Martin Zettersten (co-advised with Jenny Saffran; 2013-present)

Ashley Wendorf (2014-2016)

Postdocs

Lynn Perry (2012-2015; now Asst. Professor at University of Miami)

Bastien Boutonnet (2014-2015; now data scientist at Travel Bird)

Marcus Perlman (2014-2016; now at University of Birmingham, UK)

Justin Sulik (2015-2016; now at Royal Holloway, University of London)

Lewis Forder (2016-2017)

Hettie Roebuck (2017-)

Molly Lewis (2017-)