

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

2020-	Professor of Psychology, University of Wisconsin-Madison
2016-2017	Visiting Scholar, Max Planck Institute for Psycholinguistics.
2016-2020	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

- James McKeen Cattell Sabbatical Award (2024)
- 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:

- 2024. Large Language Models: Science & Stakes Summer Institute. Montreal, Canada
- 2024. Linguistic Intervention Research Workshop. Bielefeld, Germany
- 2024. Northern Illinois U. Center for the Interdisciplinary Study of Language and Literacy
- 2023. Israel Institute for Advanced Studies. Origins of Language
- 2023. Diverse Intelligences Summer Institute. St. Andrews, UK
- 2023. Indiana University
- 2023. Nature of Bias Conference (Invited commentator at large)
- 2023. University of Colorado Boulder. CogSci colloquium
- 2023. Philosophy of Deep Learning pre-conference debate. NYU
- 2022. Santa Fe Institute Working Group
- 2022. Abstract concepts in context (TRAINCREASE) workshop
- 2022. Osnabruck University Department Colloquium
- 2021. Conference on Computational Natural Language Learning (CoNLL) Keynote address.
- 2021. Abralin linguistics talk series
- 2021. Google DeepMind
- 2021. Linguistic and Cognitive Foundations of Meaning. DUCOG21
- 2021. University of California Irvine. Language Sciences Colloquium
- 2021. Université du Québec à Montréal
- 2021. Montclair University Linguistics Colloquium
- 2021. York University Cognitive Science Speaker Series
- 2020. NYU ConCats Meeting.
- 2020. Northwestern University. Cognitive Science Colloquium
- 2019. Cornell University. Psychology Dept. Colloquium
- 2019. Osnabruck University. The Cognitive Benefits of Language
- 2019. Columbia University. Center for Science and Society.
- 2018. University of Arizona. Cognitive Science Colloquium.
- 2018. Princeton University. PDP Symposium in honor of Jay McClelland.
- 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. ABAI.
- 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 Conferences

International Conference on the Evolution of Language (Evolang XV). Madison, WI May 2024

Organized Symposia and Workshops:

Lupyan, G. & Goldstone, R.L. 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 Rahman, 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; Nature Human Behaviour; 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:

- 2021- Associate Editor, *Interaction Studies*
- 2020- Associate Editor, *Psychonomic Bulletin & Review*
- 2015- Associate Editor, *Journal of Language Evolution*
- 2017- Evolution of Language Conference Program Committee
- 2014- Cognitive Science Society Program Committee
- 2014-2017 Associate Digital Content Editor, Psychonomic Society

Writing for the Public

Lupyan, G (2023) [Learning from diverse phenomenal experiences](#). *Aeon Essays* 12/6/2023

Lupyan, G & Clark, A. (2023) [Super Cooperators](#). *Aeon Essays*, 2/6/2023.

Selected Media Attention

- Grammar Changes How We See, an Australian Language Shows. *New Scientist*, November 1, 2023
- Revealed: What your thoughts look like and how they compare to others'. *New Scientist* July 19, 2023
- How words get their meanings. *Meaning Lab Podcast*. Dec 13, 2022
- People across cultures ... agree the word 'bouba' sounds round while 'kiki' sounds pointy. *Daily Mail*, Nov 17, 2021
- Made-Up Sounds Convey Meaning across Cultures. *Scientific American* Sept, 2021
- 'Iconic' Sounds May Be Missing Link to Language. *Language Magazine*. May 12, 2021
- Lost in Translation. *Many Minds Podcast* Nov 11, 2020
- Gender-biased language and career impact. *Forbes*. Aug 7, 2020
- How dozens of languages help build gender stereotypes. *Scientific American*. Aug 3, 2020
- The origins of language discovered in music, mime and mimicry. *New Scientist*. May, 1 2019
- Can a game of 'vocal' charades act out the origin of language? *Babel*. May 2018
- *The benefits of talking to yourself*. *New York Times*. June 8, 2017.
- Buzz! Thwack! How sounds become words. *Science*, March 31, 2017
- 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

2020-2024 – NSF – PAC (Role: PI)

“What are we learning from language?” (\$744,405 Total)

2023-2026 – NSF – DRL (Role: Co-PI)

“Moving Beyond Size: Word Meanings Underlying Children's Productive Vocabulary”
(\$711,202 Total)

2023-2024 –Wisconsin Alumni Research Foundation (\$50,310 Direct).

Completed Support

2020-2022 – UW2020 (Role Co-PI)

“Human and machine learning, the search for anomalies”

2020-2022 – NSF EAGER (Role Co-PI)

“Rule induction games as a probe for differences in human-machine intelligence”

2017-2021 – NIH – NICHD (Role: PI)

“The impact of word learning on children’s category induction” (\$420,750 Total).

2017-2020 - NSF – PAC (Role: PI)

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

2017-2023 – UW2020 (Role: PI)

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

2017-2020 – 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”

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:

Suffill, E., van Paridon, J., Lupyan, G. (accepted). [Mind melds: Verbal labels induce greater representational alignment](#). *Open Mind*.

- Rissman, L., & Lupyan, G. (2024). [Words do not just label concepts: Activating superordinate categories through labels, lists, and definitions](https://www.tandfonline.com/doi/abs/10.1080/23273798.2024.2350526). *Language, Cognition and Neuroscience*. <https://www.tandfonline.com/doi/abs/10.1080/23273798.2024.2350526>
- Lupyan, G., Contreras Kallens, P., & Dale, R. (2024). [Information density as a predictor of communication dynamics](https://doi.org/10.1016/j.tics.2024.03.012). *Trends in Cognitive Sciences*, S1364-6613(24)00079-2. <https://doi.org/10.1016/j.tics.2024.03.012>
- Nedergaard, J. S. K., & Lupyan, G. (2024). [Not Everybody Has an Inner Voice: Behavioral Consequences of Anendophasia](https://doi.org/10.1177/09567976241243004). *Psychological Science*, 9567976241243004. <https://doi.org/10.1177/09567976241243004>
- Zettersten, M., Bredemann, C., Kaul, M., Ellis, K., Vlach, H. A., Kirkorian, H., & Lupyan, G. (2023). [Nameability supports rule-based category learning in children and adults](https://doi.org/10.1111/cdev.14008). *Child Development*. <https://doi.org/10.1111/cdev.14008>
- Portelance, E., Duan, Y., Frank, M. C., & Lupyan, G. (2023). [Predicting Age of Acquisition for Children's Early Vocabulary in Five Languages Using Language Model Surprisal](https://doi.org/10.1111/cogs.13334). *Cognitive Science*, 47(9), e13334. <https://doi.org/10.1111/cogs.13334>
- Rissman, L.; Liu, Q.; Lupyan, G. (2023) [Gaps in the lexicon restrict communication](https://doi.org/10.1162/opmi_a_00089). *Open Mind*. https://doi.org/10.1162/opmi_a_00089
- Winter, B., Lupyan, G., Perry, L. K., Dingemans, M., & Perlman, M. (2023). Iconicity ratings for 14,000+ English words. *Behavior Research Methods*. <https://doi.org/10.3758/s13428-023-02112-6>
- Sulik, J., van Paridon, J., & Lupyan, G. (2023). Explanations in the wild. *Cognition*, 237, 105464. <https://doi.org/10.1016/j.cognition.2023.105464>
- Furrer, R. A., Schloss, K., Lupyan, G., Niedenthal, P. M., & Wood, A. (2023). Red and blue states: Dichotomized maps mislead and reduce perceived voting influence. *Cognitive Research: Principles and Implications*, 8(1). <https://doi.org/10.1186/s41235-023-00465-2>
- Lupyan, G.; Uchiyama, R.; Thompson, B.; Casasanto, D. (2023). [Hidden differences in phenomenal experience](https://doi.org/10.1111/cogs.13239). *Cognitive Science*. DOI: 10.1111/cogs.13239
- Liu, E., & Lupyan, G. (2022). [Cross-domain semantic alignment: Concrete concepts are more abstract than you think](https://doi.org/10.1098/rstb.2021-0372). *Philosophical Transactions of the Royal Society B*. DOI: 10.1098/rstb.2021-0372
- Nedergaard, J., Wallentin, M., Lupyan, G. (2022) [Verbal interference paradigms: A systematic review investigating the role of language in cognition](https://doi.org/10.3758/s13423-022-02144-7). *Psychonomic Bulletin & Review*. [10.3758/s13423-022-02144-7](https://doi.org/10.3758/s13423-022-02144-7)

- Suffill, E., Schonberg, C., Vlach, H., Lupyan, G. (2022). [Children's knowledge of superordinate words predicts subsequent inductive reasoning](#). *Journal of Experimental Child Psychology*.
- Raviv, L., Lupyan, G., Green, C.S. (2022). [How variability shapes learning and generalization](#) *Trends in Cognitive Sciences*. 26(6): 462-483. <https://doi.org/10.1016/j.tics.2022.03.007>
- Ahn, S., Zelinsky, G., & Lupyan, G. (2021). [Use of superordinate labels yields more robust and human-like visual representations in convolutional neural networks](#). *Journal of Vision* 21:13 <https://doi.org/10.1167/jov.21.13.13>
- Rissman, L., & Lupyan, G. (2021). [A Dissociation Between Conceptual Prominence and Explicit Category Learning: Evidence from Agent and Patient Event Roles](#). *Journal of Experimental Psychology: General*. DOI:10.1037/xge0001146
- Ćwiek, Fuchs, Draxler, Asu, Dediu, Hiovain, Kawahara, Koutalidis, Krifka, Lippus, Lupyan, Oh¹, Paul Petrone, Ridouane, Reiter, Schümchen, Szalontai, Ünal-Logacev, Zeller, Perlman, Winter (2021). [The bouba/kiki effect is robust across cultures and writing systems](#). *Philosophical Transactions of the Royal Society B*, 377(1841): 20200390 DOI:10.1098/rstb.2020.0390
- Lewis, M., Borkenhagen, M., Converse, E., Lupyan, G., Seidenberg, M. (2021). [What might books be teaching young children about gender?](#) *Psychological Science*. DOI: 10.1177/09567976211024643
- Perlman, M., Paul, J. Z., & Lupyan, G. (2021). [Vocal communication of magnitude across language, age, and auditory experience](#). *Journal of Experimental Psychology: General*. 10.1037/xge0001103
- Ćwiek, A., Fuchs, S., Draxler, C. *et al.* (2021) [Novel vocalizations are understood across cultures](#). *Scientific Reports Rep* **11**, 10108. <https://doi.org/10.1038/s41598-021-89445-4>
- Elliott, E., Morey, C. C., AuBuchon, A., Cowan, N., Jarrold, C. R., Adams, E., Attwood, M., Bayram, B., Beeler-Duden, S., Blakstvedt, T., Büttner, G., Castelain, T., Cave, S., Crepaldi, D., Fredriksen, E., Glass, B., Graves, A., Guitard, D., Hoehl, S., ... Voracek, M. (2021). Multi-lab direct replication of Flavell, Beach, & Chinsky (1966): [Spontaneous verbal rehearsal in a memory task as a function of age](#). *Advances in Methods and Practices in Psychological Science*.
- Lupyan, G., Abdel Rahman, R. A., Boroditsky, L., & Clark, A. (2020). [Effects of Language on Visual Perception](#). *Trends in Cognitive Sciences*, 24(11), 930–944. <https://doi.org/10.1016/j.tics.2020.08.005>

- Thompson, B., Roberts, S. G., & Lupyan, G. (2020). [Cultural influences on word meanings revealed through large-scale semantic alignment](#). *Nature Human Behaviour*, 4, 1029-1038. doi.org/10.1038/s41562-020-0924-8
- Lewis, M., & Lupyan, G. (2020). [Gender stereotypes are reflected in the distributional structure of 25 languages](#). *Nature Human Behaviour*, 4, 1021-1028. doi.org/10.1038/s41562-020-0918-6
- Perry, L. K., Lewis, M., & Lupyan, G. (2020). [Shaping semantic networks with transcranial direct current stimulation](#). *Quarterly Journal of Experimental Psychology*, 1747021820936207. doi.org/10.1177/1747021820936207
- Roebuck, H., & Lupyan, G. (2020). [The Internal Representations Questionnaire: Measuring modes of thinking](#). *Behavior Research Methods*. <https://doi.org/10.3758/s13428-020-01354-y>
- Thompson, B., Perlman, M., Lupyan, G., Sevcikova, Z.S., & Emmorey, K. (2020). [A Data-driven Approach to the Semantics of Iconicity in American Sign Language and English](#). *Language and Cognition* 12(1) 182-202 <https://doi.org/10.1017/langcog.2019.52>
- Zettersten, M. & Lupyan, G. (2019). [Finding categories through words: More nameable features improve category learning](#). *Cognition*. 196:104135 DOI: 10.1016/j.cognition.2019.104135
- Davis, C.P., Morrow, H.M., & Lupyan, G. (2019). [What does a horgous look like? Nonsense words elicit meaningful drawings](#). *Cognitive Science*. <https://psyarxiv.com/uve7d/> <https://doi.org/10.1111/cogs.12791>
- Lewis, M., Zettersten, M., & Lupyan, G. (2019). [Distributional Semantics as a Source of Visual Knowledge](#). Commentary on Kim, Elli, and Bedny (2019). *Proceedings of the National Academy of Sciences*. <https://psyarxiv.com/cau95/> doi.org/10.1073/pnas.1910148116
- Lupyan, G., & Goldstone, R.L. (2019). [Introduction to special issue. Beyond the lab: Using big data to discover principles of cognition](#). *Behavior Research Methods*, 51(4), 1473–1476.
- Forder, L. & Lupyan, G. (2019). [Hearing color words changes color perception: Facilitation of color discrimination by verbal and visual cues](#). *Journal of Experimental Psychology: General*, 148(7), 1105–1123.
- Sulik, J., & Lupyan, G. (2018). [Perspective taking in a novel signaling task: effects of world knowledge and contextual constraint](#). *Journal of Experimental Psychology: General*. 147(11), 1619, 2018
- Samaha, J., Boutonnet, B., Postle, B. & Lupyan, G. (2018). [Effects of meaningfulness on perception: Alpha-band oscillations carry perceptual expectations and influence early visual responses](#). *Scientific Reports*. 8:6606

- Lupyan, G., & Winter, B. [Language is more abstract than you think, or, why aren't languages more iconic?](#) (2018). *Proceedings of the Royal Society B*. 373: 20170137.
- 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*. 21(3):e12572 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. 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](#). *The 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.
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Preprints and manuscripts under review:

Seven anonymous submissions to the 2024 EvoLang conference

Van Paridon, J; Liu, Q.; Lupyan, G. (in revision). Learning about color from language. *Nature Communications Psychology*

Sulik, J., Rim, N., Pontikes, E., Evans, J., Lupyan, G. (revision under review). Why do scientists disagree? <https://psyarxiv.com/9bd8k/>

Koch, S., and Lupyan, G. (in revision). How conceptual engineering affects categorization. The argument from nameability.

Roebuck, H., Lupyan, G. (in revision). Re-thinking non-verbal intelligence: The role of language.

Chapters and Commentaries:

- Lupyan, G. (2023). [Is language of thought the best game in the town we live?](https://doi.org/10.1017/S0140525X23001814) Commentary on Quilty-Dunn, Porot, & Mandelbaum. *Behavioral and Brain Sciences*, 46:e281. <https://doi.org/10.1017/S0140525X23001814>
- Lupyan, G. (2022). [There is no such thing as culture-free intelligence](#). Commentary on Uchiyama, Spicer, and Muthukrishna. *Behavioral and Brain Sciences*.
- Lupyan, G., & Zettersten, M. (2021). [Does vocabulary help structure the mind?](#) In M. D. Sera & M. A. Koenig (Eds.), *Minnesota Symposia on Child Psychology* (pp. 160–199). John Wiley & Sons, Ltd. <https://doi.org/10.1002/9781119684527.ch6>
- Zettersten, M., Schonberg, C., & Lupyan, G. (2020). [What does a radical exemplar view not predict? A commentary on Ambridge](#) (2020). *First Language*, doi.org/10.1177/0142723720903895
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- 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

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- 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
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Refereed Full Conference Papers:

- Duan, Y; Le, K. Lupyan, G. (in press). Differences in Distributional Structure Can Lead to Differences in Similarity Biases. Talk to be presented at the *Fifteenth International Conference on the Evolution of Language*.
- Keogh, A. & Lupyan, G. (in press). Who benefits from redundancy in learning noun class systems? Talk to be presented at the *Fifteenth International Conference on the Evolution of Language*.
- Hu, Z. & Lupyan, G. (in press). Failures and successes to learn a core conceptual distinction from the statistics of language. Talk to be presented at the *Fifteenth International Conference on the Evolution of Language*.
- Mukherjee K., Suresh, S. & Lupyan, G. (in press). The role of shared labels and shared experiences in representational alignment. Talk to be presented at the *Fifteenth International Conference on the Evolution of Language*.
- Liu, Q. DeDeyne, S., & Lupyan, G. (in press). Why are Some Words More Frequent than Others? New Insights from Network Science. Talk to be presented at the *Fifteenth International Conference on the Evolution of Language*.
- Borman, M. & Lupyan, G. (in press) How many words is a picture (or a definition) worth? A distributional perspective on learning new word meanings. Talk to be presented at the *Fifteenth International Conference on the Evolution of Language*.
- Liu, Q; De Deyne, S; Jiang, X.; Lupyan, G. (2023) [Understanding the Frequency of a Word by its Associates: A Network Perspective](#). Talk presented at the Annual Conference of the Cognitive Science Society.
- Duan, Y; Lupyan, G. (2023). [Divergence in Word Meanings and its Consequence for Communication](#). Poster presented at the Annual Conference of the Cognitive Science Society.
- Nedergaard, J.; Lupyan, G. (2023). [Not Everyone Has an Inner Voice: Behavioral Consequences of Anendophasia](#). Talk presented at the Annual Conference of the Cognitive Science Society.
- Suffill, E.; van Paridon, J.; Lupyan, G. (2022). Verbal Labels Increase Conceptual Alignment. Talk presented at the Joint Conference on Language Evolution
- van Paridon, J.; Lupyan, G. (2022). Implicit communication of word meaning through co-occurrence. Poster presented at the Joint Conference on Language Evolution

- Lewis, M., Colunga, E., & Lupyan, G. (2021) [Superordinate word knowledge predicts longitudinal vocabulary growth](#). Talk presented at the 43rd Annual Meeting of the Cognitive Science Society.
- Rissman, L., & Lupyan, G. (2021) [Lions, tigers and bears: Conveying a superordinate category without a superordinate label](#). Poster presented at the 43rd Annual Meeting of the Cognitive Science Society.
- van Paridon, J., Liu, E., & Lupyan, G. (2021). [How do blind people know that blue is cold? Distributional semantics encode color-adjective associations](#). Poster presented at the 43rd Annual Meeting of the Cognitive Science Society.
- Lewis, M. Balamurugan, Zheng, & Lupyan, G. (2021). [Characterizing Variability in Shared Meaning through Millions of Sketches](#). Poster presented at the 43rd Annual Meeting of the Cognitive Science Society.
- Suffill, E., & Lupyan, G. (2020). [Verbal labels promote representational alignment even in the absence of communication](#). Poster presented at the 42nd Annual Meeting of the Cognitive Science Society. pp. 3101-3107
- Zettersten, M., Suffill, E., & Lupyan, G. (2020). [Nameability predicts subjective and objective measures of visual similarity](#). Talk presented at the 42nd Annual Meeting of the Cognitive Science Society.
- Berdicevskis, A., Çöltekin, Ç. Ehret, K., von Prince, K., Ross, D., Thompson, B., Yan, C., Demberg, V., Lupyan, G., Rama, T., Bentz, C. (2018), [Using Universal Dependencies in cross-linguistic complexity research. Proceedings of the Second Workshop on Universal Dependencies.](#), 8–17. Association for Computational Linguistics.
- De Luca, M. & Lupyan, G. (2019). [Rapid learning of word meanings from distributional and morpho-syntactic cues](#). Poster presented at the 40th Annual Meeting of the Cognitive Science Society. pp. 1599-1605.
- Hopman, E.W., Thompson, B., Austerweil, J.L., & Lupyan, G. (2018). [Predictors of L2 word learning accuracy: A big data investigation](#). Presented at the 40th Annual Meeting of the Cognitive Science Society.
- Lewis, M. & Lupyan, G. (2018). [Language use shapes cultural norms: Large evidence from gender](#). Poster presented at the 40th Annual Meeting of the Cognitive Science Society. pp. 2041-2046.

- Thompson, B., Roberts S., & Lupyan, G. (2018). [Quantifying semantic similarity across languages](#). Poster presented at the *40th Annual Meeting of the Cognitive Science Society*. pp. 2554-2559.
- Thompson, B., & Lupyan, G. (2018). [Automatic estimation of lexical concreteness in 77 languages](#). Talk presented at the *40th Annual Meeting of the Cognitive Science Society*. pp. 1122-1127
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- Roebuck, H., & Lupyan, G. (2018). [Individual differences in the propensity to verbalize: The Internal Representations Questionnaire](#). Poster presented at the *40th Annual Meeting of the Cognitive Science Society*. pp. 2358-2363
- Edmiston, P., Derex, M., & Lupyan, G. (2018). [Cumulative improvements in iterated problem solving](#). Talk presented at the *40th Annual Meeting of the Cognitive Science Society*. pp. 318-323.
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- 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. & Swingle, 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.
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Refereed Conference Posters and Talk Abstracts:

- Lupyan, G. & Raviv, L. (in press). A cautionary note on sociodemographic predictors of linguistic complexity: different measures and different analyses lead to different conclusions. Poster to be presented at the *Fifteenth International Conference on the Evolution of Language*.
- Knabe, M., Schonberg, C.; Vlach, H.; Lupyan, G. (2023) Adults' naïve theories of word learning affect their age of acquisition estimates for words. Poster presented at the *Society for Research in Child Development (SRCD 2023)*.

- Lupyan, G., Uchiyama, R.; Thompson, B.; Casasanto, D. (2022). Hidden differences in human experience. Talk presented at the 2022 meeting of the Psychonomic Society.
- Lupyan, G., Piantadosi, S.; Martí, L.; Kidd, C.; Liu, E.; van Paridon, J.; Bi, Y. (2022). How much do we agree on what words mean? Poster presented at the Joint Conference on Language Evolution
- Breitfeld, W., Weaver, H., & Lupyan, G. (2022). Parent generic language input about categories in a sample of North American English. Poster presented at the Bi-Ennial Conference of the *Cognitive Development Society*, Madison, WI.
- Rissman, L., Liu, E. & Lupyan, G. (2022). [Trouble finding the words: Lexical differences affect how English and Chinese speakers communicate categories](#). Poster presented at Experiments in Linguistic Meaning (ELM).
- Rissman, L. & Lupyan, G. (2021). "Linguistic and nonlinguistic event categories have similar prototype structure." Talk presented at the Dubrovnik Conference on Cognitive Science.
- Duan, A.Y., & Lupyan, G. (2021). [Does surprisal affect word learning? Evidence from seven languages](#). Poster presented at the 43rd Annual Meeting of the Cognitive Science Society.
- Liu, E., Jing, S., & Lupyan, G. (2021). [Metaphors Embedded in Chinese Characters Bridge Dissimilar Concepts](#). Poster presented at the 43rd Annual Meeting of the Cognitive Science Society.
- Lupyan, G., Sulik, J., Pontikes, E., Evans, J. (2020) [The Psychology Metasurvey. Who Believes What?](#) Talk presented at the 2020 meeting of the Psychonomic Society.
- Liu, E., & Lupyan, G. (2020). The Limits of Cross-Domain Mappings: Why Is Philosophy Purple? Poster presented at the 2020 meeting of the Psychonomic Society.
- Rissman, L. & Lupyan, G. (2020). Structure of Linguistic and Nonlinguistic Event Categories. Poster presented at the 2020 meeting of the Psychonomic Society.
- Rissman, L. & Lupyan, G. [English speakers \(in\)ability to explicitly recognize agent and patient categories](#). Poster presented at the *42nd Annual Meeting of the Cognitive Science Society*. P 1263.
- Roebuck, H., & Lupyan, G. (2020). Does greater use of language promote greater conceptual alignment? *Proceedings of the 13th International Conference on the Evolution of Language*. The 13th International Conference on the Evolution of Language, Brussels, Belgium.

Davis, C., Morrow, H., De Luca, M., Lupyan, G. (2020). [The generality and origins of form-to-meaning iconicity](#). *Proceedings of the 13th International Conference on the Evolution of Language*. The 13th International Conference on the Evolution of Language, Brussels, Belgium.

Ahn, S., Zelinsky, G., Lupyan, G. (2020). Exploring the effects of linguistic labels on learned visual representations using convolutional neural networks. *Journal of Vision*, 20(11):612. Talk Presented at the 2020 Vision Sciences Conference.

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Sulik, J. & Lupyan, G., (2020). [Appeals to ‘theory of mind’ no longer explain much in language evolution](#). *Proceedings of the 13th International Conference on the Evolution of Language*. The 13th International Conference on the Evolution of Language, Brussels, Belgium.

Thompson, B. Roberts, S., Lupyan, G. (2020). [Co-evolution of culture and meaning revealed through large-scale semantic alignment](#). *Proceedings of the 13th International Conference on the Evolution of Language*. The 13th International Conference on the Evolution of Language, Brussels, Belgium.

Meylan, S., Braginsky, M., deMayo, B., Sanchez, A., Schonberg, C., Srinivasan, M., Vlach, H., Lupyan, G., Griffiths, T., Frank, M. (2019). Wordful: Tracking early productive vocabulary growth with smartphones . Talk presented at *The 44th Boston University Conference on Child Language Development (BUCLD44)*.

Lupyan, G. (2019). [Larger languages have larger entropy](#). Talk presented at the Interaction and the Evolution of Linguistic Complexity Workshop. Edinburgh, UK.

Zettesten, M., Bredderman, C., Kaul, M., Vlach, H., Kirkorian, H., & Lupyan, G. (2019). Verbal labels support rule-based category learning in children. Poster presented at the Biennial Meeting of the Society for Research in Child Development. Baltimore, MD.

Edmiston, P., Derex, M., & Lupyan, G. (2018). The effects of cultural inheritance on problem solving ability. Talk presented at the Second Meeting of the Cultural Evolution Society. Tempe, AZ.

Lupyan, G. (2018). Population size and the evolution of linguistic redundancy. Talk presented at the Second Meeting of the Cultural Evolution Society. Tempe, AZ.

- Roebuck, H. & Lupyan, G. (2018). Language and intelligence: the role of 'nameability' in fluid intelligence. Talk presented at the Second Meeting of the Cultural Evolution Society. Tempe, AZ.
- Lupyan, G. (2018). Toward a Resolution of the Debate on the Cognitive Penetrability of Perception. Presented at the *40th Annual Meeting of the Cognitive Science Society*. pp. 59-60.
- Sulik, J. & Lupyan, G., (2018). Success in signaling: the effect of feedback to signaler and receiver. Talk presented at the *12th International Conference on the Evolution of Language*
- Lewis, M. & Lupyan, G., (2018). What 50 Million Drawings Can Tell Us About Shared Meaning. Poster presented at the *12th International Conference on the Evolution of Language*
- Lupyan, G., Wendorf, A., Rojas-Berscia, L.M., Paul, J.Z., (2018). Core Knowledge or language-augmented cognition? The case of geometric reasoning. Talk presented at the *11th International Conference on the Evolution of Language*
- Edmiston., Perlman, M., Lupyan., G. (2017). 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 Psychonomic 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 Psychonomic Society*. Chicago, IL

Zettersten, M. & Lupyan, G. The role of language in categorical statistical learning. Poster presented at the *2015 Meeting of the Psychonomic Society*. Chicago, IL

Zettersten, M. Paul, J., & 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 Psychonomic 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 Psychonomic 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 the *Words and the World: How Words Capture Human Experience*: Lehigh University.
- Lupyan, G. (2005). Arbitrary and Redundant Labels Facilitate the Learning of Novel Categories. Poster presented at the *Fourth Meeting of the Cognitive Development Society*. San Diego, CA.

- 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

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

Graduate methods: *Programming for Psychologists / Automation technique for behavioral research; Programming for Behavioral Data Science*

Graduate seminars: *Topics in Perception: Top-down effects; Improving Research in Psychological Science; Learning from Language*

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*

Other

2018. LOT Summer School. Groningen, Netherlands.

Mentoring

Graduate Students

Kira Breeden (2023-present)
Aja Altenhof (2023-present)
Matthew Borman (2021-present)
Yuguang (Aria) Duan (2019-present)
Qiawen (Ella) Liu (2019-present)
Martin Zettersten (co-advised with Jenny Saffran; 2013-2020)
Ashley Wendorf (2014-2016)
Pierce Edmiston (2012-2018)

Postdocs

Jeroen van Paridon (2020-2023)
Lilia Rissman (Research Scientist 2019-2023; now at Rochester Inst. of Technology)
Ellise Suffill (2019-2021; now at University of Vienna)
Christina Schonberg (2018-2021; now research scientist at IXL Learning)
Hettie Roebuck (2017-2020; now at University of Derby)
Molly Lewis (2017-2019; now at Amazon)
Justin Sulik (2015-2016; now at LMU Munich)
Lewis Forder (2016-2017)
Pierce Edmiston (2018-2019; data scientist at 8th Light)
Bastien Boutonnet (2014-2015; now lead data scientist at soda.io)
Marcus Perlman (2014-2016; Lecturer at University of Birmingham, UK)
Lynn Perry (2012-2015; Associate Professor at University of Miami)