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Curriculum Vitae
Marcus Perlman

Language & Cognition Department
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Education

2011 **Ph.D.** University of California, Santa Cruz, Cognitive Psychology
2007 **M.S.** University of California, Santa Cruz, Cognitive Psychology
2005 **M.A.** Georgia State University, Applied Linguistics
2003 **B.A.** Rice University, Linguistics

Research and Academic Positions

Sep, 2017- Lecturer in English Language and Linguistics, University of Birmingham
2016-2017 Postdoctoral Researcher, Max Planck Institute for Psycholinguistics
2016 Lecturer in Cognitive and Information Sciences, University of California, Merced
2014-2015 Postdoctoral Research Associate in Psychology, University of Wisconsin-Madison
2012-2014 Lecturer in Cognitive and Information Sciences, University of California, Merced
2012-2013 Postdoctoral Fellow, International Computer Science Institute, University of California, Berkeley
2011-2012 Postdoctoral Research Associate, The Gorilla Foundation, Woodside, CA

Publications**Journal Articles**

Perlman, M. (in press). Debunking two myths against vocal origins of language: Language is iconic and multimodal to the core. *Interaction Studies*.

Winter, B., **Perlman, M.**, Perry, L., & Lupyán, G. (in press). Which words are most iconic? Iconicity in English sensory words. *Interaction Studies*.

Perlman, M. & Salmi, R. (2017). Gorillas may use their laryngeal air sacs for whinny-type vocalizations and male display. *Journal of Language Evolution*.

- Perry, L. K., **Perlman, M.**, Winter, B., Massaro, D. W., & Lupyan, G. (2017). Iconicity in the speech of children and adults. *Developmental Science*. doi: 10.1111/desc.12572
- Massaro, D.W. & **Perlman, M.** (2017). Quantifying iconicity's role during language acquisition: Implications for vocabulary learning. *Frontiers in Communication*, 2:4. doi: 10.3389/fcomm.2017.00004
- Tanner, J.E. & **Perlman, M.** (2016). Moving beyond meaning: Gorillas combine gestures into sequences for creative display. *Language & Communication*. Advance online publication. doi: 10.1016/j.langcom.2016.10.006.
- 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, e0137147. [***First authorship shared**]
- Perlman, M.**, Dale, R.D., & Lupyan, G. (2015). Iconicity can ground the creation of vocal symbols. *Royal Society Open Science*, 2: 150152.
- Perlman, M.** & Clark, N. (2015). Learned vocal and breathing behavior in an enculturated gorilla. *Animal Cognition*, 18, 1165-1179.
- Fusaroli, R., **Perlman, M.**, Mislove, A., Paxton, A., Matlock, T., & Dale, R. (2015). Timescales of massive human entrainment. *PLoS ONE*, 10, e0122742.
- Blackwell, N.L., **Perlman, M.**, & Fox Tree, J.E. (2015). Quotation as a multimodal construction. *Journal of Pragmatics*, 81, 1-7.
- Perlman, M.**, Clark, N., & Johansson Falck, M. (2015). Iconic prosody in story reading. *Cognitive Science*, 6, 1348-1368.
- Perlman, M.** & Cain, A. (2014). Iconicity in vocalizations, comparisons with gesture, and implications for the evolution of language. *Gesture*, 14, 320-350.
- de Boer, B. & **Perlman, M.** (2014). Anatomical and physiological factors in the evolution of speech. Commentary on Ackerman, Hage, & Ziegler. Brain Mechanisms of acoustic communication in humans and nonhuman primates: an evolutionary perspective. *Behavioral and Brain Sciences*, 37, 552-553.
- Winter, B., **Perlman, M.**, & Matlock, T. (2013). Using space to talk and gesture about numbers: Evidence from the TV News Archive. *Gesture*, 13, 271-302.
- Perlman, M.** & Gibbs, R.W. Jr. (2013). Pantomimic gestures reveal the sensorimotor imagery of a human-fostered gorilla. *Journal of Mental Imagery*, 37, 73-96.
- Perlman, M.**, Patterson, F.G., & Cohn, R.H. (2012). The human-fostered gorilla Koko shows breath control in play with wind instruments. *Biolinguistics*, 6, 433-444.

Gibbs, R.W. Jr., & **Perlman, M.** (2010). Language understanding is grounded in experiential simulations: A response to Weiskopf. Commentary on D. Weiskopf. Embodied cognition and linguistic comprehension. *Studies in History and Philosophy of Science*, 41, 305-308.

Book Chapters

Clark, N., **Perlman, M.**, & Johansson Falck, M. (2014). The iconic use of pitch to express vertical space. In B. Dancygier, M. Borkent, and J. Hinnell (Eds.) *Language and the Creative Mind* (pp. 393-410). Stanford: SCLI Publications.

Perlman, M., & Gibbs, R.W. Jr. (2013). Sensorimotor simulation in speaking, gesturing, and understanding. In C. Mueller, E. Fricke, A. Cienki, and D. McNeill (Eds.) *Body-Language-Communication: An International Handbook*. Berlin: Mouton.

Perlman, M. & Gibbs, R.W. Jr. (2013). Drawing motion that isn't there: Psycholinguistic evidence on the spatial basis of metaphorical motion verbs. In J. Hudson, U. Magnusson, & C. Paradis (Eds.) *Conceptual Spaces and the Construal of Spatial Meaning. Empirical Evidence from Human Communication*. New York: Oxford University Press.

Perlman, M., Tanner, J.E., & King, B.J. (2012). A mother gorilla's variable use of touch to guide her infant: Insights into iconicity and the relationship between gesture and action. In S. Pika & K. Liebal (Eds.) *Developments in Primate Gesture Research* (pp. 55-72). John Benjamins Publishing Company.

Perlman, M. (2010). Talking fast: The use of speech rate as iconic gesture. In F. Perrill, V. Tobin, & M. Turner (Eds.) *Meaning, form, and body* (pp. 245-262). Stanford: CSLI Publications.

Gibbs, R.W. Jr. & **Perlman, M.** (2006). The contested impact of cognitive linguistic research on the psycholinguistics of metaphor understanding. In G. Kristiansen, M. Achard, R. Dirven, & F. J. Ruiz de Mendoza Ibáñez (Eds.). *Cognitive Linguistics: Current Applications and Future Perspectives* (pp. 211-228). New York: Mouton.

Book Reviews

Perlman, M. (2008). Why gesture? Review of "The Gestural Communication of Apes and Monkeys" by J. Call & M. Tomasello (Eds.). *American Journal of Psychology*, 122, 691-696.

Refereed Conference Proceedings

Perlman, M., Fusaroli, R., Fein, D., & Naigles, L. (in press). The use of iconic words in early child-parent interactions. *Proceedings of the 39th Annual Conference of the Cognitive Science Society*.

- Edmiston, P., **Perlman, M.**, & Lupyan, G. (in press). Creating words from iterated vocal imitation. *Proceedings of the 39th Annual Conference of the Cognitive Science Society*.
- Little, H., **Perlman, M.**, & Eryilmaz, K. (in press). Repeated interactions can make signals more iconic. *Proceedings of the 39th Annual Conference of the Cognitive Science Society*.
- Perlman, M.**, Paul, J.Z., & Lupyan, G. (2015). Congenitally deaf children produce iconic vocalizations to communicate magnitude. *Proceedings of the 37th Annual Conference of the Cognitive Science Society*.
- Perry, L.K., **Perlman, M.**, & Lupyan, G. (2015). Iconicity in English vocabulary and its relation to toddlers' word learning. *Proceedings of the 37th Annual Conference of the Cognitive Science Society*.
- Perlman, M.**, Clark, N., & Tanner, J.E. (2014). Iconicity and ape gesture. In Erica A. Cartmill, Sean Roberts, Heidi Lyn & Hannah Cornish (Eds.) *The Evolution of Language: Proceedings of the 10th International Conference (EVOLANG10)* (pp. 236-243). New Jersey: World Scientific.
- Perlman, M.**, Dale, R., & Lupyan, G. (2014). Vocal charades: The emergence of conventions in vocal communication. In Erica A. Cartmill, Sean Roberts, Heidi Lyn & Hannah Cornish (Eds.) *The Evolution of Language: Proceedings of the 10th International Conference (EVOLANG10)* (pp. 228-235). New Jersey: World Scientific.
- Clark, N. & **Perlman, M.** (2014). Breath, vocal and supralaryngeal flexibility in a human-reared gorilla. In B. de Boer & T. Verhoef (Eds.) *Proceedings of the Workshop on Evolution of Signals, Speech, and Signs* (pp. 5-9).
- Massaro, D. W., Bigler, S., Chen, T., **Perlman, M.**, & Ouni, S. (2008). Pronunciation training: The role of eye and ear. *Proceedings of the 9th Interspeech Conference, Sydney, Australia*.
- Massaro, D.W., Carreira-Perpinan, M.A., Merrill, D.J., Sterling, C., Bigler, S., Piazza, E., & **Perlman, M.** (2008). IGlasses: An automatic wearable speech supplement in face-to-face communication and classroom situations. *Proceedings of The Tenth International Conference on Multimodal Interfaces, Chania, Greece*.

Non-Refereed Publications

- Perlman, M.** (2015). How did language begin? With a BANG! *Aeon Ideas Blog*, https://ideas.aeon.co/questions/how-did-language-begin#viewpoint_5372
- Perlman, M.** (2015). Recreating language's Big Bang through a game of vocal charades. *The Conversation*, <https://theconversation.com/recreating-languages-big-bang-through-a-game-of-vocal-charades-45563>

Michael, E.B., Massaro, D.W., & **Perlman, M.** (2009). What's the bottom line? Development of and potential uses for the Summary Translation Evaluation Tool—STET. *The Next Wave: The National Security Agency's Review of Emerging Technologies*, 18, 42-49.

Manuscripts Under Review or Revision

Perlman, M. & Lupyán, G. The potential for iconicity in vocalization.

Edmiston, P., **Perlman, M.**, & Lupyán, G. The emergence of words from vocal imitations.

Winter, B. & **Perlman, M.** Vision dominates perceptual language: Evidence from verb, noun and adjective frequencies.

Perlman, M., Paul, J. Z., & Lupyán, G. Hearing is not required for vocal communication of magnitude.

Refereed Conference Presentations

Fusaroli, R., Dale, R., Søndergaard, M., Sohn, J., **Perlman, M.**, Mislove, A., & Petersen, M.B. (accepted). The collective dynamics of hostility: social attention and sentiment during the 2016 US presidential election. Paper to be presented at the Seventh Joint Action Meeting, London, UK.

Winter, B., Sokuthy, M. & **Perlman, M.** (Jul, 2017). 'R' is for rough: Iconicity in English and Hungarian surface descriptors. Poster presented at the Iconicity Focus Group Workshop, Nijmegen, NL.

Little, H. & **Perlman, M.** (April, 2017). The transition from iconic signals to arbitrary signs depends on modality. Paper presented at the 11th International Symposium on Iconicity in Language and Literature, Brighton, UK.

Winter, B., **Perlman, M.**, Perry, L.K., & Lupyán, G. (Apr, 2017). Which words are the most iconic? Characterizing the distribution of iconicity in English. Paper presented at the 11th International Symposium on Iconicity in Language and Literature, Brighton, UK.

Winter, B. & **Perlman, M.** (Apr, 2017). 'R' is for rough: Relative and absolute iconicity for touch concepts in English. Paper to be presented at the 11th International Symposium on Iconicity in Language and Literature, Brighton, UK.

Perry, L.K., **Perlman, M.**, Winter, B., Lupyán, G., & Massaro, D.W. (Nov, 2016). The role of iconicity in child-directed speech. Poster presented at the 41st Boston University Conference of Language Development.

Perlman, M. & Lupyán, G. (May, 2016). Iconic potential of spoken languages. Paper presented as part of the symposium: Non-arbitrariness of the sign: A new frontier in language

research, at the 28th American Psychological Association Annual Convention, Chicago, IL.

Edmiston, P., **Perlman, M.**, & Lupyan, G. (Mar, 2016). The fidelity of iterated vocal imitation. Paper presented at the 11th International Conference on the Evolution of Language, New Orleans, LA.

Winter, B., Perry, L.K., **Perlman, M.**, & Lupyan, G. (Mar, 2016). The structure of iconicity in the English lexicon. Paper presented at the 11th International Conference on the Evolution of Language, New Orleans, LA.

Perry, L.K., **Perlman, M.**, Lupyan, G., Winter, B., & Massaro, D.W. (Mar, 2016). Early learned words are more iconic. Paper presented at the 11th International Conference on the Evolution of Language, New Orleans, LA.

Perry, L.K., **Perlman, M.**, Lupyan, G., Winter, B., & Massaro, D.W. (Oct, 2015). Early learned words sound like what they mean. Paper presented at the Florida Psycholinguistics Meeting, Tallahassee, FL.

Perlman, M., Paul, J.Z., & Lupyan, G. (Sep, 2015). Hearing is not required to communicate magnitude with iconic vocalizations. Paper presented at Protolang 4, Rome, Italy.

Perlman, M. & Lupyan, G. (Sep, 2015). The vocal iconicity challenge! Paper presented at Protolang 4, Rome, Italy.

Tanner, J.E. & **Perlman, M.** (Sep, 2015). Gorillas combine gestures into sequences for (at least) two different reasons. Paper presented at Protolang 4, Rome, Italy.

Perry, L.K., **Perlman, M.**, & Lupyan, G. (Sep, 2015). Iconicity in spoken language and its relation to ease of word learning. Paper presented at Protolang 4, Rome, Italy.

Winter, B., **Perlman, M.**, & Matlock, T. (Sep, 2015). Gesture space corresponds to mental number space: Evidence from “tiny” and “low” numbers. Paper presented at the 6th International Conference on Spatial Cognition. Rome, Italy.

Perlman, M., Perry, L.K., & Lupyan, G. (Aug, 2015). The English lexicon is iconic in interesting ways. Poster presented at the 6th Biennial International Conference on the Linguistics of Contemporary English, Madison, Wisconsin.

Winter, B., **Perlman, M.**, & Matlock, T. (Jul, 2015). Gestures in the TV news reflect mental number space: “Tiny” and “low” numbers. Poster presented at the 37th Annual Conference of the Cognitive Science Society. Pasadena, California.

Fusaroli, R., **Perlman, M.**, Mislove, A., Paxton, A., & Dale, R. (Jun, 2015). Timescales of massive human entrainment. Paper presented at the International Conference on Computational Social Science, Helsinki, Finland.

- Perlman, M.** (May, 2015). Vocal control and learning in the great apes. Paper presented as part of the symposium: The evolution of human vocal behavior: Comparative, cultural, developmental, and neuroscience perspectives, at the 27th Human Behavior and Evolution Society Conference, Columbia, Missouri.
- Clark, N. & **Perlman, M.** (Nov, 2014). Multimodality hits you hard, bro. Paper presented at the 12th Conceptual Structure, Discourse, and Language Conference, Santa Barbara, California.
- Perlman, M.**, Lupyan, G., & Dale, R. (Jul, 2014). Iterative vocal charades: Iconicity in the generation of vocal conventions. Paper presented at the 6th Conference of the International Society for Gesture Studies, San Diego, California.
- Clark, N. & **Perlman, M.** (Jul, 2014). Novel multimodal behavior of a human-reared gorilla. Paper presented at the 6th Conference of the International Society for Gesture Studies, San Diego, California.
- Winter, B., **Perlman, M.**, & Matlock, T. (Jul, 2014). Tiny numbers are actually tiny: Precision grips map onto implied quantity. Paper presented at the 6th Conference of the International Society for Gesture Studies, San Diego, California.
- Matlock, T., Bergmann, T., Banks, C., **Perlman, M.**, & Winter, B. (Jul, 2014). The TV news archive: An innovative new tool for gesture research. Poster presented at the 6th Conference of the International Society for Gesture Studies, San Diego, California.
- Perlman, M.**, Dale, R., & Lupyan, G. (Aug, 2013). Vocal charades: The emergence of conventions in vocal communication. Poster presented at the 35th Annual Meeting of the Cognitive Science Society, Berlin, Germany.
- Lichtenstein, P., **Perlman, M.**, & Matlock, T. (Aug, 2013). A crosslinguistic look at how metaphor, manner, and aspect can drive political races. Poster presented at the 35th Annual Meeting of the Cognitive Science Society, Berlin, Germany.
- Winter, B., **Perlman, M.**, Mislove, A., & Matlock, T. (Jul, 2013). How do people Paper and gesture about numbers? Evidence from TV news casts. Paper presented at Embodied & Situated Language Processing Conference. Potsdam, Germany.
- Perlman, M.** (Jun, 2013). An empirical study of iconic production in the vocal modality. Paper presented at the 12th International Cognitive Linguistics Conference, Edmonton, Canada.
- Matlock, T., **Perlman, M.**, Fleming, M., & Coe, C. (Jun, 2013). How motion metaphors drive political races. Paper presented at the 12th International Cognitive Linguistics Conference, Edmonton, Canada.

- Perlman, M.**, Patterson, F.G., & Cohn, R.H. (May, 2012). Iconic gestures of a human-fostered gorilla. Paper presented at the 11th Conceptual Structure, Discourse, and Language Conference, Vancouver, Canada.
- Blackwell, N.L., **Perlman, M.**, & Fox Tree, J.E. (May, 2012). Quotation as a multimodal construction. Paper presented at the 11th Conceptual Structure, Discourse, and Language Conference, Vancouver, Canada.
- Perlman, M.**, Patterson, F.G., & Cohn, R.H. (Sep, 2011). The incorporation of learned breathing-related behavior into the multimodal gestures and rituals of an enculturated gorilla. Paper presented at the New College Oxford Conference on Embodied Language, Oxford, United Kingdom.
- Perlman, M.**, Tanner, J.E., & King, B.J. (Jul, 2010). A mother gorilla's flexible use of touch to coordinate movement with her infant: The creation of meaning along a gesture-action continuum. Paper presented at the 4th Conference of the International Society for Gesture Studies, Frankfurt (Oder), Germany.
- Perlman, M.**, Post, A., & Garner, D. (Jul, 2010). ACTMAP: A corpus tool for the multimodal analysis of popular music. Paper presented at the 4th Conference of the International Society for Gesture Studies, Frankfurt (Oder), Germany.
- Johansson Falck, M., **Perlman, M.**, Clark, N. & Gibbs, R.W., Jr. (June, 2010). Iconicity in metaphorical storytelling. Paper presented at the 8th conference of the Research and Applying Metaphor International Association, Amsterdam, the Netherlands.
- Perlman, M.** (Jun, 2010). Vocal iconicity and gesture. Poster presented at the ZiF Conference on Perception and Action, Center for Interdisciplinary Research, Bielefeld, Germany.
- Okonski, L. & **Perlman, M.** (Nov, 2009). Teacher's use of prosody in dance instruction. Poster presented at the interdisciplinary symposium on Intelligence and Action -- New Perspectives in Dance and Cognitive Science, Bielefeld, Germany.
- Perlman, M.** & Benitez, N.J. (Oct, 2008). Talking Fast: The use of speech rate as iconic gesture. Paper presented at the 9th Conference on Conceptual Structure, Discourse, and Language, Cleveland, Ohio.
- Perlman, M.** & Jiang, N. (Mar, 2005). Language background effect on English plural acquisition. Paper presented at the 5th Annual Graduate Student Forum at The 39th Annual TESOL Convention, San Antonio, Texas.
- Perlman, M.** & Jiang, N. (Oct, 2004). Morphological accuracy in story retelling by ESL speakers of different language backgrounds. Paper presented at the Second Language Research Forum, State College, Pennsylvania.

Organized Workshops and Sessions

Perlman, M. (Apr, 2017). Experimental approaches to iconicity in language evolution. (M. Dingemans & P. Perniss participated as Discussants). 11th International Symposium on Iconicity in Language and Literature, Brighton, UK.

Invited Talks

- 2017. Max Planck Institute for Psycholinguistics. Iconicity Focus Group Workshop.
- 2017. Tilburg University. Center for Cognition and Communication.
- 2017. Max Planck Institute for Psycholinguistics. Diversity in Language, Culture and Cognition Colloquium.
- 2016. Aarhus University. Interacting Minds Centre
- 2016. Umeå University. Department of Language Studies Colloquium
- 2016. University of California, Berkeley. CogNetwork
- 2016. Tulane University. Speech Evolution Workshop
- 2015. University of Wisconsin-Madison, Chaos and Complexity Seminar Series
- 2015. University of Wisconsin-Madison, Dept. of Communication Sciences & Disorders
- 2015. Max Planck Institute for Psycholinguistics. Language & Cognition Dept.
- 2015. Max Planck Institute for Psycholinguistics. Iconicity Focus Group
- 2014. University of Cologne. Phonetics Colloquium
- 2014. University of Southern California. Workshop on Action, Vision and Language and their Brain Mechanisms in Evolutionary Relationship
- 2011. Cardiff University. Cognitive Psychology Colloquium
- 2011. University of Oregon. Linguistics Colloquium

Selected Media Attention

- Think your dog talks like people? Scientists say you might just be right. *Washington Post*, January 19, 2017.
- Buzz! Thwack! How sounds become words. *Science*, March 31, 2016.
- Why dogs growl and light flickers. *Scienceline*, February 29, 2016.
- How presidential debates are like fireflies. *The Accessible Academic*. October 13, 2015.
- Has Koko the gorilla really learnt to talk? *BBC (Earth Blog)*, August 21, 2015.
- How a coughing ape is changing our ideas about animals, humans and language. *Washington Post*, August 18, 2015
- 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
- A thousand dollar prize awaits whoever can speak without words. *Vice (Motherboard)*, January 10, 2015.
- A famous gorilla plays the recorder, and we all may learn something. *NPR (13.7 Cosmos & Culture blog)*, February 2, 2012.

Teaching

Courses Taught

- *Mind, Brain, and Computation*, University of California, Merced, Summer 2016
- *Language, Cognition, & Interaction*, University of California, Merced, Spring 2016
- *Language and Cognition*, University of California, Merced, Fall 2013
- *Research Methods for Cognitive Scientists (with Lab)*, University of California, Merced, Spring 2013
- *Spatial Cognition* (x4), University of California, Merced, Fall 2012, Summer 2013, Fall 2013, Spring 2016
- *Psychology of Language*, University of California, Santa Cruz, Summer 2012
- *Introduction to Psychological Statistics*, University of California, Santa Cruz, Summer 2010

Other Teaching Positions

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| 2005 | Instructor, <i>English as a Second Language</i> , Kaplan, Atlanta, Georgia |
| 2004-2005 | Instructor, <i>English as a Second Language</i> , Atlanta Intercultural Ministries, Chamblee, Georgia |
| 2004 | Instructor, <i>English as a Foreign Language</i> , US-China Educational Exchange, Beijing, China |
| 2003 | Reading Tutor, International Community School, Decatur, Georgia |

Professional Service

Ad hoc reviewer for:

- American Journal of Primatology; Animal Cognition; Annual meeting of the Cognitive Science Society; Behavior Research Methods; Biology Letters; Cognition; Cognitive Linguistics; Cognitive Science; Frontiers in Human Neuroscience; Frontiers in Psychology; Journal of Cognitive Psychology; Journal of Experimental Child Psychology; Journal of Experimental Psychology: General; Journal of Language Evolution; Journal of Pragmatics; Language and Communication; Language and Speech; Language, Cognition and Neuroscience; Language Learning and Development; National Science Foundation, Biological Anthropology; Pragmatics and Cognition; Psychology of Language and Communication; Psychological Science; Speech Communication; TopiCS in Cognitive Science; The Wenner-Gren Foundation

Association Memberships—Past and Present

- Association for Psychological Science, Cognitive Science Society, International Society for Gesture Studies, Human Behavior and Evolution Society, Sigma Xi, Society for the Study of Cultural Evolution, Teaching English to Speakers of other Languages (TESOL)