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Francis Mollica

	Education
2014	PhD Brain and Cognitive Sciences , <i>University of Rochester</i> , Rochester, NY. Committee: Steven Piantadosi, Michael Tanenhaus, Naomi Feldman, Aaron White Expected May 2019.
2014	MA Brain and Cognitive Sciences, <i>University of Rochester</i> , Rochester, NY. Committee: Steven Piantadosi, Michael Tanenhaus, Robbie Jacobs (chair)
2010	BA Linguistics , <i>University at Buffalo</i> , Buffalo, NY. Language and Cognition Concentration
2010	BS Psychology, University at Buffalo, Buffalo, NY.
	Honors and Awards
2018	Student Travel Award, CUNY Sentence Processing.
2017	Student Travel Award, Cognitive Science Society.
2016	Honorable Mention, NSF Graduate Research Fellowship Program.
2015	Student Travel Award, Cognitive Science Society.
2015	Honorable Mention, NSF Graduate Research Fellowship Program.
2014	Outstanding Senior Award, Dept. of Linguistics, University at Buffalo.
2012	Grace W. Capen Academic Award, University at Buffalo.
	Funding
2017	Donald M. and Janet C. Bernard Fellowship, University of Rochester.
2015	Discover Grant, University of Rochester.
2010	Provost Scholarship, University at Buffalo.
2010	Johnson Controls Foundation Scholarship.
	Journal Publications
	Mollica, F. and S. Piantadosi. (in prep) <i>Universal and cultural-specific processes in exact number word acquisition</i> .
	Rubio-Fernández, P., Mollica, F. , and J. Jara-Ettinger. (submitted) <i>Why searching</i> for a blue triangle is different in English than in Spanish.

Rubio-Fernández, P., Mollica, F. , M. Oraa Ali, and E. Gibson. (in revision) <i>How do you know that? Automatic belief inferences in passing conversation</i> .
Mollica, F. ^{\dagger} , M. Siegelman ^{\dagger} , E. Diachek, S.T. Piantadosi, R. Futrell, Z. Mineroff, and E. Fedorenko. (under review) <i>High local mutual information drives the response in the human language network</i> .
Mollica, F. and S. T. Piantadosi. (in revision) <i>Logical word learning: The case of kinship.</i>
Register*, Y., Mollica, F. , and S. T. Piantadosi. (under review) <i>Semantic verification</i> is flexible and sensitive to context.
Mollica, F. and S. T. Piantadosi. "Humans store about 1.5 megabytes of information during language acquisition." In: <i>Royal Society Open Science</i> 6.3, p. 181393.
Martí, L., Mollica, F. , S. T. Piantadosi, and C. Kidd. "Certainty is primarily determined by past performance during concept learning". In: <i>Open Mind</i> 2.2, pp. 47–60.
Mollica, F. and S. T. Piantadosi. "How data drives early word learning: a cross-linguistic waiting time analysis." In: <i>Open Mind</i> 1.2, pp. 67–77.
Conference Proceedings
Yan, S.†, Mollica, F. †, and M. K. Tanenhaus. "A context constructivist account of contextual diversity." In: <i>Proceedings of the 40th Annual Meeting of the Cognitive Science Society</i> . Austin, TX: Cognitive Science Society.
Oey*, L., Mollica, F. , and S. T. Piantadosi. "Adults use gradient similarity information in compositional rules." In: <i>Proceedings of the 40th Annual Meeting of the Cognitive Science Society</i> . Austin, TX: Cognitive Science Society.
Mollica, F. and S. T. Piantadosi. "An incremental information theoretic buffer supports sentence processing." In: <i>Proceedings of the 39th Annual Meeting of the Cognitive Science Society</i> . Austin, TX: Cognitive Science Society., pp. 805–810.
Mollica, F. , S Wade, and S. T. Piantadosi. "A rational constructivist account of the characteristic to defining shift." In: <i>Proceedings of the 39th Annual Meeting of the Cognitive Science Society</i> . Austin, TX: Cognitive Science Society., pp. 799–804.
Martí, L., Mollica, F. , S. T. Piantadosi, and C. Kidd. "What determines human certainty?" In: <i>Proceedings of the 38th Annual Meeting of the Cognitive Science</i>

2015	Mollica, F. and S. T. Piantadosi. "Towards semantically rich and recursive word learning models." In: <i>Proceedings of the 37th Annual Meeting of the Cognitive Science Society</i> . Austin, TX: Cognitive Science Society., pp. 1607–1612.
2015	Mollica, F. , S. T. Piantadosi, and M. K. Tanenhaus. "The perceptual foundation of linguistic context." In: <i>Proceedings of the 37th Annual Conference of the Cognitive Science Society</i> . Austin, TX: Cognitive Science Society., pp. 1613–1618.
	Conference Talks
2019	Mollica, F. , J. Jara-Ettinger, and S.T. Piantadosi. <i>A cross-linguistic Bayesian data analysis of number word learning</i> . Biennial Meeting of the Society for Research in Child Development. Baltimore, MD.
2018	Yan, S.†, Mollica, F. †, and M. K. Tanenhaus. <i>A context constructivist account of contextual diversity.</i> The 40th Annual Conference of the Cognitive Science Society. Madison, WI.
2018	Oey*, L., Mollica, F. , and S. T. Piantadosi. <i>Adults use gradient similarity information in compositional rules</i> . The 40th Annual Conference of the Cognitive Science Society. Madison, WI.
2018	Oey*, L., Mollica, F. , and S. T. Piantadosi. <i>Like a horse but striped: Combining similarity and rules in conceptual representation.</i> The 32nd Annual National Conference on Undergraduate Research. Oklahoma City, OK.
2017	Mollica, F. and S.T. Piantadosi. <i>An incremental information theoretic buffer supports sentence processing.</i> The 39th Annual Conference of the Cognitive Science Society. London, UK.
2017	Mollica, F. , S. Wade, and S.T. Piantadosi. <i>A rational constructivist account of the characteristic to defining shift.</i> The 39th Annual Conference of the Cognitive Science Society. London, UK.
2017	Mollica, F. and S.T. Piantadosi. <i>An incremental information theoretic buffer supports sentence processing.</i> The 30th CUNY Sentence Processing Conference. Cambridge, MA.
2015	Mollica, F. and S.T. Piantadosi. <i>Characterizing data-driven word learning: A cross-linguistic analysis.</i> More on Development. Columbus, OH.
2015	Mollica, F. , S.T. Piantadosi, and M.K. Tanenhaus. <i>The perceptual foundation of linguistic context</i> . The 37th Annual Conference of the Cognitive Science Society.

Los Angeles, CA.

	Conference Posters
2019	Mollica, F. and S.T. Piantadosi. <i>A cross-linguistic Bayesian data analysis of number word learning.</i> Budapest CEU Conference on Cognitive Development. Budapest, Hungary.
2018	Rubio-Fernández, P. and Mollica, F. <i>Incremental contrasts: Why spotting a blue triangle is different in English than in Spanish.</i> The 31st CUNY Sentence Processing Conference. Davis, CA.
2018	Mollica, F. and E. Gibson. <i>Towards a psychological evaluation metric for semantic representations.</i> The 31st CUNY Sentence Processing Conference. Davis, CA.
2016	Galette, C.*, Mollica, F. , and R. Raizada. <i>Unconvering the representation of ambiguous words.</i> The 30th Annual National Conference on Undergraduate Research. Asheville, NC.
2015	Mollica, F. , S.T. Piantadosi, and M.K. Tanenhaus. <i>The perceptual foundation of linguistic context.</i> The 28th CUNY Sentence Processing Conference. Los Angeles, CA.

 $^{*\ \}mathsf{supervised}\ \mathsf{undergraduate}\ \mathsf{researcher}$

 $[\]dagger$ co-authored work (equal contribution)

	Departmental/Colloquia/Invited Talks
2018	The Human Learning Machine: Computational Models of Conceptual Development Computational Cognitive Science Lab University of Melbourne, October, 2018
2018	The Human Learning Machine: Computational Models of Conceptual Development Computation and Cognitive Development Lab Yale, April, 2018
2018	Simplicity, data and inter-related systems: A computational account of kinship term acquisition. Children's Acquisition of Kinship Knowledge: Theory and Method Workshop University of Bristol, January, 2018
2017	An information-theoretic buffer supports language processing. The Computational Psycholinguistics Lab MIT , November, 2017
2017	A contextual diversity hypothesis of lexical retrieval in online language processing. The Language Lab MIT, October, 2017
2017	How data drives word learning: A cross-linguistic analysis. The Language Lab MIT , September, 2017
2016	Formalizing conceptual development: The case of kinship. NRT Mini-Conference University of Rochester, September, 2016
2016	How data drives word learning: A cross-linguistic analysis. Evolution and Development Talk Series University of Rochester, April, 2016

Teaching 2018 BCS 259: Language Development, Teaching Assistant, Spring, University of Rochester 2017 BCS 153: Cognition, Teaching Assistant, Spring, University of Rochester 2016 BCS 310: Senior Seminar, Co-Instructor, Fall, University of Rochester 2016 Building the Language Machine: An Intro to Computational Linguistics, Instructor, Summer, Rochester Scholars Program 2016 BCS 153: Cognition, Teaching Assistant, Spring, University of Rochester 2015 The Language Scientist: Linguist, Psychologist, Computer Scientist, Instructor, Summer, Rochester Scholars Program 2013 LIN 207: Language, Society and the Individual, Teaching Assistant, Fall, University at Buffalo 2013 PSY 207: Psychological Statistics, Teaching Assistant, Summer, University at Buffalo

Ad-hoc Reviewing

Journals: Behavioral Research Methods, Language, Cognition & Neuroscience, Morphological Typology and Linguistic Cognition, PLOS One

Conferences: CogSci, COLING