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Francis Mollica

| | Education |
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| 2014 | PhD Brain and Cognitive Sciences , <i>University of Rochester</i> , Rochester, NY. 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. (under review) <i>How do you know that? Automatic belief inferences in passing conversation</i> . |
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| | Mollica, F. [†] , M. Siegelman [†] , 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. (under revision) <i>Logical word learning: The case of kinship.</i> |
| | Mollica, F. and S. T. Piantadosi. (under review) <i>Humans store</i> ~ 1.5 <i>megabytes during language acquisition: information theoretic bounds.</i> |
| | Register*, Y., Mollica, F. , and S. T. Piantadosi. (under review) <i>Semantic verification</i> is flexible and sensitive to context. |
| | Martí, L., Mollica, F. , S. T. Piantadosi, and C. Kidd. (to appear) <i>Certainty is primarily determined by past performance during concept learning. Open Mind.</i> |
| 2017 | 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 |
| 2018 | 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. |
| 2018 | 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</i> |
| • | 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</i> |
| 2018 | 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</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. |
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| 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 |
| 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 |

Hungary.

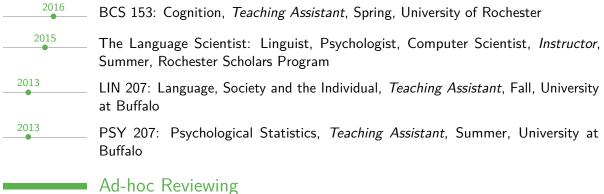
Mollica, F. and S.T. Piantadosi. *A cross-linguistic Bayesian data analysis of number word learning*. Budapest CEU Conference on Cognitive Development. Budapest,

| 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. |
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| 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 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 $\it MIT$, 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 <i>University of Rochester</i> , April, 2016 |
| | Teaching |
| 2018 | BCS 259: Language Development, <i>Teaching Assistant</i> , 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, <i>Instructor</i> , Summer, Rochester Scholars Program |



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

Conferences: CogSci, COLING