Xiaomeng (Amy) Ma

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Professional Summary

I'm a computational linguist with background in cognitive science. I am passionate about applying cognitive models to improve data efficiency in neural network models.

Education

2017 - present	PhD in Linguistics, Graduate Center, CUNY
2016 - 2017	M.S in Neuroscience, Columbia University
2014 - 2016	M.A in Applied Linguistics, Columbia University
2010 - 2014	B.A in English, Beijing International Studies University

Skills

Programming	Python, R, HTML/CSS, LaTeX
Tools	TensorFlow, Keras, Pytorch, AllenNLP, NLTK, Spacy, BERT, SciKit-Learn, NumPy
Deep Learning	CNN, RNN (LSTM, GRU), Attention models
ML Models	Regression, Classification, K-Means, Markov models
Other	Finite State Transducer
Tasks	Language Modeling, Text Normalization, Neural Machine Translation, Automated Essay Scoring

Publications

2020	**Ma, X.**, Martin Chodorow and Virginia Valian. (2020) Learning Pronoun case from distributional cues: Flexible frames for case acquisition. In *Proceedings of the Workshop on Cognitive Modeling and Computational Linguistics,* pages 66-74.
2018	Onnis, L., Truzzi, A., **Ma, X.** (2018). Language development and disorders: Possible genes and environment interactions. *Research in developmental disabilities*

Conference

2021.4	**Ma, X.**, *Why No Double Objective Construction in Shupamem* at The 51-52 Annual Conference of African Linguistics (ACAL), Online
2021.2	**Ma, X.**, *Why No Double Objective Construction in Shupamem* at The 43rd Annual Conference of German Linguistic Society (DGfS), Online
2021.1	**Ma, X.**. Valian, V., Chodorow, M. *Can 'Let her open it' explain 'Her open it' error?* at The 95th Annual Meeting of the Linguistic Society of America (LSA), Online
2020.11	**Ma, X.**. Chodorow, M., Valian, V. *Learning Pronoun Case from Distributional Cues: Flexible Frames for Case Acquisition* at The 10th Workshop of Cognitive Modeling and Computational Linguistics (CMCL) at Empirical Methods in Natural Language Processing (EMNLP), Online
2020.10	**Ma, X.**. Valian, V., Chodorow, M. *Revisiting Children's Pronoun Case Errors: A Comprehensive Corpus Analysis* at Many Paths to Language (MPaL), Online
2019.11	**Ma, X.**, Xu, Q., Valian, V., Chodorow, M., May, 2019, *Testing the Tolerance Principle on Corpus Data* Poster session presented at The 44th annual Boston University Conference on Language Development, Boston, USA
2019.5	**Ma, X.**, Valian, V., Chodorow, M., May, 2019, *The subject omission and pronoun avoidance in children with ASD: A Corpus Analysis* Poster session will be presented at The 7th conference of the Scandinavian Association for Language and Cognition, Aarhus, Denmark

2019.4 **Ma, X.**, Valian, V., Chodorow, M., April, 2019 *Children's Pronoun Case Errors Revisit: A computational model on distributional cues* Talk given at Lund Symposium on Cognition, Communication and Learning, Lund, Sweden

2018.7 **Ma, X.**, July, 2018, *Which is more effective in disambiguation: prosody or context?* Poster session presented at Ambigo: Workshop on Ambiguity – Theory, Development, and Processing, Göttingen, Germany

2018.6 **Ma, X.**, June, 2018, *A Systematic Review of Genetic Disorder and Language Development* Poster session presented at International Max Planck Research School for the Language Sciences Conference 2018, Nijmegen, the Netherlands

2018.2 **Ma, X.**, Feb, 2018, *Revisiting pronoun case errors in child language: a corpus analysis* Poster session presented at convention of Architectures and Mechanisms of Language Processing - Asia, Hyderabad, India

Teaching

Lehman College, CUNY – Adjunct Lecturer

LNG 160 Introduction to Linguistics, Spring 2019
LNG 230 Language Acquisition, Fall 2018
PSY 217 Child Psychology, Spring 2019 - Spring 2020
PSY 342 The Psychology of Literacy Development, Fall 2019 - Spring 2020 LNG 321 Introduction to Syntax, Spring 2021

College Staten Island, CUNY – Adjunct Assistant Professor

PSY 242 Developmental Psychology, Fall 2018 - Fall 2019
PSY 335 Experimental Psychology, Summer 2019, 2020, Spring 2021

Yeshiva University – Adjunct Lecturer

SPAU 4925 Introduction to Linguistics, Spring 2020, 2021

Graduate Center, CUNY – Practicum Leader

LING 73900 Statistics for Linguistic Research Practicum (with Prof. Kyle Gorman), Spring 2020

Professional Experience

2016.3-2017.8 Project Specialist at US-China Dialogue, Asia Society - New York

2015.6-2015.12 Learning Intern at Talent Development Unit, United Nations Development Programme (UNDP) - New York

Reference

Virginia Valian, vvalian@gc.cuny.edu, Distinguished Professor at Psychology, Linguistics, and Speech-Language-Hearing Sciences at CUNY Graduate Center, 695 Park Avenue, New York, NY 10065

Martin Chodorow, mchodoro@hunter.cuny.edu, Professor of Psychology and Linguistics at CUNY Graduate Center, 695 Park Avenue, New York, NY 10065

Kyle Gorman, kgorman@gc.cuny.edu, Assistant Professor at Linguistics at CUNY Graduate Center, 365 Fifth Avenue New York, NY 10016 USA