# SAMANTHA WRAY

 $email\ samantha.c.wray@dartmouth.edu \ \cdot \ samantha.wray@nyu.edu$ 

phone (US) +1 425 350 7531 · (UAE) +971 50 231 2708

### POSITIONS HELD

2020 -	Research Assistant Professor & Lecturer · Dartmouth College
	Instructor of record: - LING 11: Language Acquisition - LING 11: History of the Arabic Language - LING 50: Psycholinguistics - PSYCH 10: Experimental Design, Methodology, and Data Analysis Procedures - PSYCH 28: Cognitive Psychology - COGS 50: Computational Psychology of Language
	Researcher focusing on word recognition models for understudied languages using behavioral and neuroimaging methods
2017 - 2020	Postdoctoral Associate · New York University Abu Dhabi
	Researcher in Neuroscience of Language Lab focusing on word recognition models in magnetoencephalography. Developing and executing experiments, building and improving Arabic corpora; Managing research assistants, experimental protocols and grant funds
2016	Faculty Associate · Arizona State University
	Instructor of record: - ENG 313: Phonology and Morphology - LIN 511: Phonetics and Phonology Faculty supervisor for Honors student projects
2014 - 2015	Research Associate · Qatar Computing Research Institute
	Creator of spoken dialectal Arabic corpora built using automatic and human computation (crowdsourcing) classification, used for training of automatic Arabic dialect identification, speech recognition and speech-to-text models

## EDUCATION

2016	Ph.D. Linguistics · University of Arizona
	Dissertation: <i>Decomposability and the effects of morpheme frequency in lexical access</i> Committee: Adam Ussishkin (chair), Michael Hammond, Samira Farwaneh
2013	M.Sc. Human Language Technology · University of Arizona
2008	B.A. Linguistics - English Literature · Western Washington University

#### PUBLICATIONS

2022	<b>Wray, Samantha</b> & Adam Ussishkin. <i>Productivity effects on morphological processing in Maltese auditory word recognition</i> in Morphological Diversity and Linguistic Cognition, Cambridge University Press.
2022	Sims, Andrea, Adam Ussishkin, Jeffrey Parker, and <b>Samantha Wray</b> . <i>At the intersection of cognitive processes and linguistic diversity</i> . in Morphological Diversity and Linguistic Cognition, Cambridge University Press.
2021	<b>Wray, Samantha</b> , Linnaea Stockall, and Alec Marantz. <i>Early Form Based</i> <i>Morphological Decomposition in Tagalog: MEG evidence from Reduplication,</i> <i>Infixation and Circumfixation.</i> in Neurobiology of Language.
(submitted)	<b>Wray, Samantha</b> . <i>Productivity modulates decomposition in auditory lexical access: evidence from colloquial Arabic.</i>

### PUBLICATIONS IN PROCEEDINGS

2018	Coto-Solano, Rolando, Sally Akevai Nicholas, and <b>Samantha Wray.</b> Development of Natural Language Processing Tools for Cook Islands Maori. in
	Proceedings of Australasian Language Technology Association Workshop.
2018	<b>Wray, Samantha.</b> <i>Classification of Closely Related Sub Dialects of Arabic Using Support Vector Machines.</i> in Proceedings of International Conference on Language Resources and Evaluation (LREC) 2018.
2015	<b>Wray, Samantha</b> & Ahmed Ali. <i>Crowdsource a little to label a lot: labeling a speech corpus of Dialectal Arabic.</i> in Proceedings of Interspeech 2015.
2015	Wray, Samantha, Hamdy Mubarak, and Ahmed Ali. <i>Best Practices for Crowdsourcing Dialectal Arabic Speech Transcription</i> . in Proceedings of the Second Workshop on Arabic Natural Language Processing.

#### PRESENTATIONS

#### Talks

2020	Wray, Samantha. Morphosyntactic Derivation of the Form VIII Verb: Stuck in the Middle Again. at 34th Arabic Linguistics Symposium, Tucson, Arizona, USA
2019	<b>Wray, Samantha</b> , Linnaea Stockall, and Alec Marantz. <i>Automatic decomposition revisited with MEG evidence from visual processing of Tagalog circumfixes, infixes, and reduplication (Poster Slam)</i> at Society for Neurobiology of Language, Helsinki, Finland
2019	Coto-Solano, Rolando, Sally Akevai Nicholas, <b>Samantha Wray</b> , and Tyler Peterson. <i>Accelerating the analysis of your audio recordings with Untrained Forced</i> <i>Speech Alignment</i> . at 6th International Conference on Language Documentation Conservation, Honolulu, Hawaii, USA
2018	Coto-Solano, Rolando, Sally Akevai Nicholas, and <b>Samantha Wray.</b> <i>Development of Natural Language Processing Tools for Cook Islands Maori.</i> at Australasian Language Technology Association Workshop, Dunedin, Aotearoa New Zealand
2017	Wray, Samantha & Adam Ussishkin. Binyan productivity effects on morphological processing in Maltese auditory word recognition. at the Workshop on

	Morphological Typology and Linguistic Cognition, University of Kentucky, Lexington, Kentucky, USA
2016	Ussishkin, Adam, Hadas Velan, Michael Spagnol, Andrew Wedel, and <b>Samantha Wray.</b> <i>Maltese root priming is morphological, not phonological.</i> at the 22nd AMLaP (Architecture and Mechanisms of Language Processing) Conference, Basque Center for Brain and Language, Bilbao, Spain
2015	Ussishkin, Adam, Luke Galea, Andrew Wedel and <b>Samantha Wray</b> . <i>Maltese templates and vocalic melodies are phonological: evidence from auditory priming</i> . at the Fifth International Conference on Maltese linguistics. Turin, Italy
2015	Ussishkin, Adam, Luke Galea, Andrew Wedel and <b>Samantha Wray</b> . <i>Phonology vs. morphology: How auditory lexical decision in Maltese resolves the conflict</i> . at the 23rd Manchester Phonology Meeting. Manchester, UK
2015	Coto-Solano, Rolando & <b>Samantha Wray</b> . <i>Distribution of consonantal features in Middle Egyptian verb roots.</i> at 46th Annual Conference of African Linguistics. Eugene, Oregon, USA
2015	Ussishkin, Adam, Luke Galea, Andrew Wedel and <b>Samantha Wray</b> . <i>The phonological status of Maltese word patterns: Evidence from auditory priming.</i> at the 89th Annual Meeting of the Linguistics Society of America. Portland, Oregon, USA
2013	Ussishkin, Adam, Luke Galea, Andrew Wedel and <b>Samantha Wray</b> . <i>When visual and auditory processing diverge: evidence from Maltese</i> . at Fourth International Conference on Maltese linguistics. Bremen, Germany
2012	Wray, Samantha. <i>Prosodic Features of a Sanaani Arabic Language Game.</i> at Arabic Linguistics Symposium. New York, New York, USA
Р	osters
2019	<b>Wray, Samantha</b> , Linnaea Stockall, and Alec Marantz. <i>Breaking down breaking down: automatic decomposition revisited with MEG evidence from visual processing of circumfixes, infixes, and reduplication in Tagalog</i> at AMLaP 2019, Moscow, Russia
2019	<b>Wray, Samantha</b> , Linnaea Stockall, and Alec Marantz. <i>Automatic decomposition revisited with MEG evidence from visual processing of Tagalog circumfixes, infixes, and reduplication</i> at Society for Neurobiology of Language, Helsinki, Finland
2019	<b>Wray, Samantha</b> , Alec Marantz, and Linnaea Stockall. <i>Reduplicated words are automatically decomposed, even when they are fake: MEG evidence from Tagalog pseudoreduplicants</i> at 32nd CUNY Conference on Human Sentence Processing, Boulder, Colorado, USA
2019	<b>Wray, Samantha</b> & Alec Marantz. <i>Words in speech decompose to their roots even when the root is interrupted: a study on Emirati Arabic</i> at Cognitive Neuroscience Society Annual Meeting, San Francisco, California, USA
2018	<b>Wray, Samantha</b> & Alec Marantz. <i>Phonemic Prediction at the Root for Arabic Words with Prefixes and Infixes.</i> at AMLaP 2018, Berlin, Germany
2018	Wray, Samantha. Classification of Closely Related Sub Dialects of Arabic Using Support Vector Machines. at LREC 2018, Miyazaki, Japan
2016	<b>Wray, Samantha.</b> <i>Affix productivity and morpheme frequency in lexical access</i> at the Tenth International Conference on the Mental Lexicon 2016. Ottawa, Canada
2015	Wray, Samantha & Ahmed Ali. <i>Crowdsource a little to label a lot: labeling a speech corpus of Dialectal Arabic.</i> at Interspeech 2015. Dresden, Germany
2015	Wray, Samantha, Hamdy Mubarak, and Ahmed Ali. <i>Best Practices for</i> <i>Crowdsourcing Dialectal Arabic Speech Transcription</i> . at the Second Workshop on Arabic Natural Language Processing (co-located with ACL). Beijing, China

2014	<b>Wray, Samantha</b> , Jennifer Boutz, Valerie Novak and Tim Buckwalter. <i>Authenticating and supplementing a Yemeni Arabic dictionary using a web corpus.</i> at American Association of Corpus Linguistics. Flagstaff, Arizona, USA
	Demo
2015	Hakouz, Waed, Abdurrahman Ghanem, <b>Samantha Wray</b> and Ahmed Ali. <i>Lahajet: A Game for Classifying Dialectal Arabic Speech.</i> at 2015 IEEE Automatic Speech Recognition and Understanding Workshop. Scottsdale, Arizona, USA
	Invited Talks
2020	Wray, Samantha. Whats in a word? Phonological transparency in Tagalog pseudo-reduplicates. at Applied Phonology course at UCLA. California, USA
2019	<b>Wray, Samantha.</b> <i>Whats in a word? Neural correlates of morphophonemic processing.</i> at Dartmouth College. Hanover, New Hampshire, USA
2018	Coto-Solano, Rolando <b>Samantha Wray.</b> <i>Forced alignment workshop.</i> at Jawaharlal Nehru University. New Delhi, India
2016	Wray, Samantha. Creating and utilizing colloquial Arabic corpora. at Arizona State University. Phoenix, Arizona, USA

# FELLOWSHIPS, GRANTS AND HONORS

Inter/National

2021 - 2024	United Kingdom Research and Innovation Economic and Social Research Council (ESRC) - Systematicity and Variation in Word Structure Processing Across Languages: a Neuro-Typology approach (SAVaNT) (co-Investigator, with Principal Investigator Linnaea Stockall and co-Investigators Christina Manouilidou, Dustin Chacón, Rok Žaucer, and Alec Marantz) US\$958,598
2020 - 2023	Abu Dhabi Department of Education and Knowledge - Lisaaniyat: A real-time MRI collection of Arabic speech in motion (co-Investigator, with Principal Investigator Alec Marantz and co-Investigators Ben Lang, Haidee Paterson, Osama Abdullah, and Zainab Hermes) AED300,000 US\$81,677
2015 - 2017	National Science Foundation Doctoral Dissertation Research Improvement Grant - Morphological Decomposition in Arabic (co-Principal Investigator, with Principal Investigator Adam Ussishkin) BCS-1533780, US\$10,711
2013 - 2014	CASA I (Center for Arabic Study Abroad) Fellowship American University Cairo, Egypt + Qasid Institute Amman, Jordan
2011	USDE FLAS (Foreign Languages and Area Studies) Fellowship for Advanced Modern Standard Arabic at Qalam wa Lawh Institute, Rabat, Morocco
	Local
2019	New York University Postdoctoral Research Travel Award - US\$2000 for participating in ICLDC panel
2015	University of Arizona Graduate Interdisciplinary Programs Raphael and Jolene Gruener Research Travel Award - US\$500 for fieldwork in Amman, Jordan
2015	University of Arizona Graduate and Professional Student Council Research and Project Grant - US\$2000 for creation of a colloquial Arabic corpus
2014	University of Arizona Graduate Professional Student Council Travel Grant for professional development - US\$500 for travel to present at AACL
2012	University of Arizona Graduate Professional Student Council Travel Grant for professional development - US\$500 for travel to present at Arabic Linguistics Symposium

2011	University of Arizona Social and Behavioral Sciences Research Institute Pre-doctoral grant, coawardee: Kevin Schluter - US\$500 for creation of Palestinian word familiarity materials
2010	University of Arizona Graduate and Professional Student Council Student Showcase for poster Sanaani language games - First Place Winner Languages and Literature Category

## ACADEMIC SERVICE

Grant review	National Science Foundation
Journal review	Australian Journal of Linguistics Poznan Studies in Contemporary Linguistics Language and Speech Journal of Phonetics
2020	Reviewer · 34th Arabic Linguistics Symposium
2019	Reviewer/Program Committee · Neuroscience of Language Conference (Neurolang-AD)
2019	Organizing Committee · Neuroscience of Language Conference (Neurolang-AD)
2017	Reviewer/Program Committee $\cdot$ 6th International Conference on Maltese Linguistics
2017	Reviewer/Program Committee $\cdot$ Morphological Typology and Linguistic Cognition Workshop - 2017 Linguistic Society of America Institute
2017	Organizing committee · Morphological Typology and Linguistic Cognition Workshop - 2017 Linguistic Society of America Institute
2015	Reviewer/Program Committee · Arabic Natural Language Processing Workshop (co-located with ACL)
2015	Mentor $\cdot$ "Hot Summer Cool Research" Internship Program at Qatar Computing Research Institute
2012 - 2013	Lab Manager $\cdot$ Psycholinguistics and Computational Linguistics Lab (PsyCol) at the University of Arizona
2012	Outreach Committee · Linguistics Department at the University of Arizona
2012	Organizing Committee · Arizona Linguistics Circle Conference
2011 - 2012	President $\cdot$ Arizona Linguistics Circle, Linguistics Graduate Council at the University of Arizona
2011	Organizing Committee · Arizona Linguistics Circle Conference
2010 - 2011	Treasurer $\cdot$ Arizona Linguistics Circle, Linguistics Graduate Council at the University of Arizona