Matthias Lalisse

Contact Information	PhD Recipient Johns Hopkins University Department of Cognitive Science 237 Krieger Hall 3400 N. Charles St. Baltimore, MD 21218 USA	E-mail: Homepage: GitHub:	matthias.lalisse http://pages.jh.ec github.com/Matth <i>Updated:</i> C	lu/~mlaliss1	
PHD RESEARCH	Ph.D. Thesis : Structure Assembly in Neural My thesis examines models of knowledge cal representational models like Holograp Product Representations (TPRs). In addit tures, I developed three models for know of the art, and developed a number of re WikiData.	e representation ohic Reduced Re- tion to formal re- vledge base com- new datasets base	epresentations (HRl esults relating to th pletion that perform sed on WordNet, F	Rs) & Tensor ose architec- m at the state reebase, and	
	Key terms: Computational semantics/com computation. Models of semantic composi inference applied to knowledge base comple	ition. Computat	ional models of co	mmon sense	
EDUCATION	Johns Hopkins University, Baltimore, MD				
	Ph.D., Cognitive Science			2015 - 2021	
	 Dissertation: Structure Assembly in Kno Advisers: Paul Smolensky, Kyle Rawling Areas of Study: compositional semantic sentation 	8	-	Sept. 2021 vledge repre-	
	University of Oxford, Oxford, UK				
	M.Phil (with Distinction), Linguistics, Philo	logy and Phone	tics	2015	
	 Thesis Title: Distinguishing Intersective and Non-Intersective Adjectives in Compositional Distributional Semantics Adviser: Ash Asudeh Ertegun Scholar 				
	McGill University, Montreal, QC				
	B.A./M.A. English, Minor in Political Scien Advisers: Peter Gibian & Monica Popescu	ce		2007 - 2011	
RESEARCH PAPERS	Scalable Knowledge Base Completion with Paul Smolensky				
	Workshop on Gradient Symbolic Computati			Sept 2019	
	Distributed neural encoding of binding to th Poster presentation @ MACSIM 8, New Yo		h Paul Smolensky	April 2019	
	Augmenting Compositional Models for Knowledge Base Completion Using Gradient Rep- resentations. with Paul Smolensky Proceedings of the Society for Computation in Linguistics (LSA), New York City				
	Supervaluationist Semantics for Absolute G CLS 53, University of Chicago	radability.		May 2017	

OTHER PROJECTS	LobbyLinks		
	 A processing pipeline for extracting links between government entities (legislators, agencies) and lobbyists operating on behalf of private organizations. Uses government filings and ML tools to process unstructured text data and produce visualizations (sample linked above) of lobbying networks. Designed to serve as a resource for investigating how lobbyist penetration of the legislative process shapes policy. 		
	Energy Democracy		
	• I am engaged in efforts to build energy democracy by building public util in Rochester, NY. I've written on the subject in Truthout (2020).	lities, especially	
PRESENTATIONS	Distributed neural encoding of binding to thematic roles MACISM 8, NYU.	April 2019	
	Augmenting Compositional Graph Completiom with Harmony Networks LSA-SCiL, New York City	Jan 2019	
	Maximality, Minimality and Absoluteness in Delineation Semantics for Grad MACSIM 7, Georgetown University.	lable Predicates October 2017	
AWARDS AND	University of Oxford		
Honors	• Ertegun Scholarship ("full-ride")	2013-2015	
	Faith Ivens-Franklin Travel Award	Aug. 2014	
	Linguistics Department Travel Grant	Aug. 2014	
	McGill University		
	Mary Keenan Scholarship in English	2010	
	Provost's Graduate Fellowship	2010	
	Molson Chair Graduate Fellowship	2010	
	Chester Macnaghten Prize in Creative WritingCharles William Snyder Memorial Scholarship	2010 2009	
	Shakespeare Scholarship	2009	
	• Dean's Honour List	2009-10	
	Golden Key Honour Society	2009	
Organizing Experience	UNITE HERE, Atlanta, GA		
	 Volunteer canvasser: Georgia Senate runoff Dec. With labor organizers, canvassed in the Atlanta metro area to elec Warnock and Jon Ossoff to the US Senate. 	2020/Jan. 2021 t Rev. Raphael	
	AOC for Congress, remote from Rochester, NY		
	Data volunteer	2020-Present	
• Analysis of text data using machine learning models such a			
	"Supervol Squad" member Summer/Fall 2020		
	• Organized and led trainings and phone banks to promote the Green Alexandria Ocasio-Cortez during the 2020 election cycle.	New Deal and	

	Teachers and Researchers United (SEIU Local 300), Baltimore, MD			
	 Worker-organizer 2015-Present Former AFT affiliate, current SEIU affiliate. Organized graduate workers of Johns Hopkins University around unionization, health-care, job security, and national policy issues such as immigration and taxation. 			
	Citizens Climate Lobby, Baltimore, MD			
	<i>Citizen lobbyist</i>Met with Congressional staff to advocate for CCL's Carbon Fee and a national carbon tax.	2015-2017 I Dividend policy,		
	Keble College MCR, Oxford, UK			
	<i>Environment Officer</i> Oc • Organized green events for graduate students at Keble College, Oxf	t. 2014-July 2015 Ford.		
	Push Your Parents, Oxford, UK			
	 Secretary Oct Bottom-lined administrative functions for an advocacy group mobility persuade their parents to divest from fossil fuels. 	2014-June 2015 ilizing students to		
GUEST LECTURES	Semantics, Pragmatics, & Discourse.	October 2017		
	Johns Hopkins University. Course: Cognition, taught by Tal Linzen			
	Lexical and Compositional Semantics. Johns Hopkins University. Course: Language and Mind, taught by Julia Y	October 2016 armolinskaya		
Teaching Experience	Teaching Assistant for Foundations of Cognitive Science Johns Hopkins University. Instructor: Paul Smolensky	Spring 2018		
	Teaching Assistant for Cognition Johns Hopkins University. Instructor: Tal Linzen	Fall 2017		
	Teaching Assistant for Phonology Johns Hopkins University. Instructor: Colin Wilson	Spring 2017		
	Teaching Assistant for Language and Mind Johns Hopkins University. Instructor: Julia Yarmolinskaya	Fall 2016		
	Teaching Assistant for Mathematical Models of Language Johns Hopkins University. Instructor: Kyle Rawlins	Spring 2016		
	ESL Teacher Centre de perfectionnement linguistique. Montreal, QC.	2012-2013		
	Teaching Assistant for Postcolonial Literature McGill University. Instructor: Monica Popescu	2010		
Non-academic employment	Indigo Bookstores, Montreal, QC			
	Book stocker and booksellerStocked books in the in-store warehouse of a Canadian bookstor	2011-2013 e chain, and also		

• Stocked books in the in-store warehouse of a Canadian bookstore chain, and also worked on the sales floor.

IGA, Montreal, QC

	Grocery store product sample distributor2008-2010• Worked through college distributing food samples in a Canadian grocery store chain.
	French Territories Translation, Rochester, NY
	 French-English Translator 2006-2012 Translated documents including press releases, periodicals, employee and technical manuals, legal contracts, and essays for publication from French to English for business and academic clients.
	CGI Communications, Rochester, NY
	Script-writerSummer 2008• Produced informational scripts for videos about cities and towns as part of CGI's eLocalLink business.
Research Experience	McGill University, Montreal, QC
	Research Assistant2012-2013Principal Investigator: Saleem Razack (Centre for Medical Education)
	Research AssistantSummer 2009, 2010Professors Alanna Thain and Peter Gibian.
OTHER TRAINING	NASSLLI, New Brunswick, NJAugust 2016• North American Summer School in Logic, Language and Information• Rutgers University
	ESSLLI, Tübingen, GermanyAugust 2014• European Summer School in Logic, Language and Information• University of Tübingen
	ACTL, London, UK • <i>Advanced Core Training in Linguistics</i> • University College London
CONFERENCE ORGANIZATION	The Humanities in the 21st Century March 2014 • Funded by The Oxford Research Centre for the Humanities (TORCH) and the Mica and Ahmet Ertegun Scholarship Programme.