Luke Gessler

Ph.D. Student, Georgetown University Last updated April 25, 2022

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Education

2018 –	Georgetown University – Washington, DC Ph.D. student in Computational Linguistics Advisor: Amir Zeldes GPA: 3.97/4.00
2018 – 2021	Georgetown University – Washington, DC M.S. in Computational Linguistics
2012 – 2016	University of Virginia – Charlottesville, VA B.A. Computer Science, B.A. Linguistics, with distinction GPA: 3.83/4.00
2008 – 2012	Thomas Jefferson High School for Science and Technology – Alexandria, VA Advanced Studies Diploma

Conference and Workshop Publications

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in prep.	Luke Gessler , Austin Blodgett, Joseph Ledford, Nathan Schneider. 2022. Xposition: An Online Multilingual Database of Adpositional Semantics. In <i>Proc. of LREC</i> , Marseille, France. European Language Resources Association.
in prep.	Luke Gessler . 2022. Closing the NLP Gap: Documentary Linguistics and NLP Need a Shared Software Infrastructure. In <i>Proc. of ComputEL-5</i> at ACL, Dublin, Ireland. Association for Computational Linguistics.
2021	Luke Gessler , Nathan Schneider. 2021. BERT has uncommon sense: similarity ranking for word sense BERTology. In <i>Proc. of BlackboxNLP</i> at EMNLP, Punta Cana, Dominican Republic. Association for Computational Linguistics.
2021	Luke Gessler , Shabnam Behzad, Yang Janet Liu, Siyao Peng, Yilun Zhu, Amir Zeldes. 2021. DisCoDisCo at the DISRPT2021 shared task: a system for discourse segmentation, classification, and connective detection. In <i>Proc. of CODI-DISRPT</i> at EMNLP, Punta Cana, Dominican Republic. Association for Computational Linguistics. Scored 1st place in all subtasks .
2020	Luke Gessler , Siyao Peng, Yang Janet Liu, Yilun Zhu, Shabnam Behzad, and Amir Zeldes. 2020. AMALGUM – a free, balanced, multilayer English web corpus. In <i>Proc. of</i>

LREC, pages 5267-5275, online. European Language Resources Association.

Graham Neubig, Shruti Rijhwani, Alexi Palmers, Jordan MacKenzie, Hilaria Cruz, Xinjian Li, Matthew Lee, Aditi Chaudhary, Luke Gessler, Steven Abney, Shirley Anugrah Hayati, Anastasopoulos, Antonios, Olga Zamaraeva, Emily Prud'hommeaux, Jennette Child, Sara Child, Knowles, Rebecca, Sarah Moeller, Jeffrey Micher, Yiyuan Li, Sydney Zink, Mengzhou Xia, Roshan S. Sharma, and Patrick Littell. 2020. A summary of the first workshop on language technology for language documentation and revitalization. In Proc. of the 1st Joint Workshop on Spoken Language Technologies for Under-resourced languages (SLTU) and Collaboration and Computing for Under-Resourced Languages (CCURL) at LREC, pages 342-351, online. European Language Resources Association.

Aryaman Arora, Luke Gessler, and Nathan Schneider. 2020. Supervised grapheme-2020 to-phoneme conversion of orthographic schwas in Hindi and Punjabi. In *Proc. of ACL*, pages 7791-7795, online. Association for Computational Linguistics.

Luke Gessler. 2019. Developing without developers: choosing labor-saving tools for 2019 language documentation apps. In Proc. of ComputEL-3 at ICLDC, pages 6-13, Honolulu, Hawaii, United States. Association for Computational Linguistics.

Luke Gessler, Yang Janet Liu, and Amir Zeldes. 2019. A siscourse signal annotation system for RST trees. In Proc. of the Workshop on Discourse Relation Parsing and Treebank-2019 ing at NAACL-HLT, pages 56-61, Minneapolis, Minnesota, United States. Association for Computational Linguistics..

Mitchell Abrams, Luke Gessler, and Matthew Marge. 2019. B. Rex: a dialogue agent for book recommendations. In Proc. of SIGDIAL, pages 418-421, Stockholm, Sweden. Association for Computational Linguistics.

Presentations

Luke Gessler, Optimizing Developer Productivity in Endangered Language Documentation *Apps*. Talk given at deRSE19.

Awards and Honors

Phi Beta Kappa 2016

Critical Language Scholarship 2013, 2014

Full funding to spend a summer in India studying Hindi.

Maureen O'Donnell Oxford Classical Dictionary Award 2012

Awarded for winning five gold medals in the National Latin Exam.

Teaching: Courses

2020

2019

TA, Empirical Methods in Natural Language Processing (COSC 572) – Georgetown University

Spring 2022

Grade and correct student assignments for the graduate-level introduction to NLP in the computer science department, covering fundamental NLP algorithms and an introduction to deep learning for NLP.

TA, Computational Corpus Linguistics (LING 372) – Georgetown University

Fall 2020

Graded and corrected student assignments for an intensive semester-long course where students annotate documents with a variety of different linguistic annotations including part of speech tags, Universal Dependencies syntactic parses, named and non-named entities, and more. Also provided advice and feedback for students' final projects.

Fall 2019

TA, Computational Corpus Linguistics (LING 372) – Georgetown University *See above.*

Teaching: Workshops

Instructor, AllenNLP Workshop

Nov. 2021

Designed and ran a half-day workshop where attendees, who know Python, were introduced to AllenNLP, a deep learning framework for NLP.

Instructor, Academic CV Latex Workshop

Nov. 2019

Designed and ran a day-long workshop where attendees learned the basics of LaTeX and created their own CVs.

Instructor, Python for Linguists

Nov. 2018

Taught a day-long course with original materials (github.com/lgessler/python-for-linguists) introduction Python for linguistics graduate students, with no programming experience assumed.

Department Service

Social Media Chair, Georgetown University Computational Linguistics

2021 -

Manage Twitter and other accounts for the GUCL community, promoting papers published by members and engaging with the computational linguistics and natural language processing community on Twitter.

Social Chair, Georgetown University Computational Linguistics

2020

Organized activities such as movie nights and game nights to build community in the Georgetown computational linguistics community.

Organizer, History of Linguistics Reading Group

2020

Organized and hosted a 3-month weekly reading group covering select primary literature in linguistics' historical development from Panini to American Structuralism. Syllabus: https://docs.google.com/document/d/10RjmOTCNwsBP8ErLqgasptpOfCFN8Won5hle6FMlJpA/edit?usp=sharing

2018 – 2019	Founder and Organizer, Georgetown University Fieldwork Forum Created a working/reading group for students and faculty who do linguistic fieldwork.
2014 – 2016	Founder, Virginia Linguistic Club Founded and ran the University of Virginia's first linguistics club, organizing social events like screenings of linguistics-related documentaries and hosting guest speakers.

Academic Service

2019 Co-publicity chair, Linguistic Annotation Workshop XIV 2020 Managing LAW 2020's website and social media presence.

Reviewer Service

2022	Workshop On The Use of Computational Methods in the Study of Endangered Lan-
	guages (ComputEL-5)
2022	International Conference on Language Resources and Evaluation (LREC)
2021	Workshop on Natural Language Processing for Digital Humanities (NLP4DH)
2021	AmericasNLP (co-located with NAACL-HLT 2021)
2020	International Conference on Language Resources and Evaluation (LREC)

Other Service

2018 –	Webmaster, Veg Society of DC
2016 –	Manage a small 501(c)(3) nonprofit's web operations (G Suite, DNS, etc.).

Professional Experience

2021	Software Development Consultant, Luminare Inc. – Houston, TX Rapid prototyping on a web application for health analytics leveraging my expertise in tools including Clojure, ClojureScript, and Fulcro.
2016 – 2018	Software Developer, Epic Systems Corporation – Madison, WI Made software for the United States' most widely-used electronic medical record software, including a headliner feature for the 2018 update.
2015	Software Development Intern, Epic Systems Corporation – Madison, WI Developed an IVR (interactive voice response) system integrated into Epic's software.

Programming Languages

Proficient	Clojure, Python, JavaScript, Java, C#, MUMPS
Familiar	Scheme, Common Lisp, OCaml, C, Go, bash

Languages

Native | English

Proficient Hindi

Reading Latin, Sahidic Coptic