

Luke Gessler

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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

<i>in prep.</i>	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.
<i>in prep.</i>	Luke Gessler . 2022. Closing the NLP Gap: Documentary Linguistics and NLP Need a Shared Software Infrastructure. In <i>Proc. of ComputEL-5 at ACL</i> , 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 at EMNLP</i> , 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 at EMNLP</i> , 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 LREC</i> , pages 5267-5275, online. European Language Resources Association.

2020	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 <i>Proc. of the 1st Joint Workshop on Spoken Language Technologies for Under-resourced languages (SLTU) and Collaboration and Computing for Under-Resourced Languages (CCURL)</i> at LREC, pages 342-351, online. European Language Resources Association.
2020	Aryaman Arora, Luke Gessler , and Nathan Schneider. 2020. Supervised grapheme-to-phoneme conversion of orthographic schwas in Hindi and Punjabi. In <i>Proc. of ACL</i> , pages 7791-7795, online. Association for Computational Linguistics.
2019	Luke Gessler . 2019. Developing without developers: choosing labor-saving tools for language documentation apps. In <i>Proc. of ComputEL-3</i> at ICLDC, pages 6-13, Honolulu, Hawaii, United States. Association for Computational Linguistics.
2019	Luke Gessler , Yang Janet Liu, and Amir Zeldes. 2019. A siscourse signal annotation system for RST trees. In <i>Proc. of the Workshop on Discourse Relation Parsing and Treebanking</i> at NAACL-HLT, pages 56-61, Minneapolis, Minnesota, United States. Association for Computational Linguistics..
2019	Mitchell Abrams, Luke Gessler , and Matthew Marge. 2019. B. Rex: a dialogue agent for book recommendations. In <i>Proc. of SIGDIAL</i> , pages 418-421, Stockholm, Sweden. Association for Computational Linguistics.

Presentations

2019	Luke Gessler , <i>Optimizing Developer Productivity in Endangered Language Documentation Apps</i> . Talk given at deRSE19.
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Awards and Honors

2016	Phi Beta Kappa
2013, 2014	Critical Language Scholarship Full funding to spend a summer in India studying Hindi.
2012	Maureen O'Donnell Oxford Classical Dictionary Award Awarded for winning five gold medals in the National Latin Exam.

Teaching: Courses

Spring 2022	TA, Empirical Methods in Natural Language Processing (COSC 572) – Georgetown University Graded and corrected 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. Also gave a guest lecture and held office hours.
Fall 2020	TA, Computational Corpus Linguistics (LING 372) – Georgetown University 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 <i>See above.</i>

Teaching: Workshops

Nov. 2021	Instructor, AllenNLP Workshop Designed and ran a half-day workshop where attendees, who know Python, were introduced to AllenNLP, a deep learning framework for NLP.
Nov. 2019	Instructor, Academic CV Latex Workshop Designed and ran a day-long workshop where attendees learned the basics of LaTeX and created their own CVs.
Nov. 2018	Instructor, Python for Linguists 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

2021 –	Social Media Chair, Georgetown University Computational Linguistics 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.
2020 –	Social Chair, Georgetown University Computational Linguistics Organize activities such as happy hours, movie nights, and game nights to build community in the Georgetown computational linguistics community.
2020	Organizer, History of Linguistics Reading Group 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/10Rjm0TCNwsBP8ErLqgasptp0fCFN8Won5hle6FMlJpA/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.
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Reviewer Service

2022	Workshop On The Use of Computational Methods in the Study of Endangered Languages (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 Manage a small 501(c)(3) nonprofit's web operations (G Suite, DNS, etc.).
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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