

Denis R Newman-Griffis

Curriculum Vitae

The Ohio State University

2015 Neil Ave

Columbus, OH, USA

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📄 [drgriffis.github.io](https://github.com/drgriffis)

Natural Language Processing, Biomedical Informatics,
Computational Semantics, Information Extraction, Machine Learning

Publications

- 2018 **Denis Newman-Griffis** and Ayah Zirikly. Embedding Transfer for Low-Resources Medical Named Entity Recognition: A Case Study on Patient Mobility. In *Proceedings of BioNLP*, 2018.
- 2018 **Denis Newman-Griffis**, Albert M Lai, and Eric Fosler-Lussier. Jointly Embedding Entities and Text with Distant Supervision. In *Proceedings of the 3rd Workshop on Representation Learning for NLP (Repl4NLP)*, 2018.
- 2017 Thanh Thieu, Jonathan Camacho, Pei-Shu Ho, Julia Porcino, Min Ding, Lisa Nelson, Elizabeth Rasch, Chunxiao Zhou, Leighton Chan, Diane Brandt, **Denis Newman-Griffis**, Ao Yuan, and Albert M Lai. Inductive identification of functional status information and establishing a gold standard corpus: A case study on the Mobility domain. In *2017 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*, 2017.
- 2017 **Denis Newman-Griffis**, Albert M Lai, and Eric Fosler-Lussier. Insights into Analogy Completion from the Biomedical Domain. In *Proceedings of the 16th Workshop on Biomedical Natural Language Processing (BioNLP)*, 2017.
- 2017 **Denis Newman-Griffis** and Eric Fosler-Lussier. Second-Order Word Embeddings from Nearest Neighbor Topological Features. Pre-print: *arXiv:1705.08488*, 2017.
- 2016 **Denis R Griffis**, Chaitanya Shivade, Eric Fosler-Lussier, and Albert M Lai. A Quantitative and Qualitative Evaluation of Sentence Boundary Detection for the Clinical Domain. In *Proceedings of the AMIA Summit on Clinical Research Informatics (AMIA-CRI)*, 2016.

Posters and Presentations

- 2018 **Denis Newman-Griffis**. Natural language processing approaches to extracting patient functioning from clinical data. Invited talk at Stanford University, Center for Population Health Sciences, March 2018.
- 2018 **Denis Newman-Griffis**, Albert M Lai, and Eric Fosler-Lussier. Jointly embedding biomedical entities and text with distant supervision. Poster presentation, in *Proceedings of the AMIA Informatics Summit*, 2018.

- 2017 **Denis Newman-Griffis**, Thanh Thieu, Chunxiao Zhou, Diane Brandt, Jonathan Camacho Maldonado, Julia Porcino, Albert M Lai, and Leighton Chan. Characterizing the language of functioning: A corpus analysis illustrating how human function is described in clinical text. Poster presentation, in *Proceedings of the AMIA Summit on Clinical Research Informatics (AMIA-CRI)*, 2017.

Education

- 2014– **PhD student**, *The Ohio State University, Department of Computer Science and Engineering*, Columbus, OH, USA.
Modeling and extracting information regarding patient function from clinical text.
Co-advised by Dr. Eric Fosler-Lussier and Dr. Albert Lai (now of Washington University in St. Louis)
- 2008–2012 **Bachelor of Arts**, *Carleton College, City, Magna cum laude*.
Majors: Computer Science & Russian
◦ Senior thesis (Computer Science) titled “PIG: Packet Inspection Guru.”
◦ Senior thesis (Russian): translation of Georgiy Demidov’s short story, “No Toe Tag,” published in the short story collection, “Five Fates from a Wondrous Planet” (2015).

Teaching/Mentoring

- 2018– Advising Brendan Whitaker, OSU Mathematics; Research project on properties of language representations that contribute to downstream tasks.
- Autumn 2017 CSE 3521 - Survey of Artificial Intelligence I: Basic Techniques
Dept. of Computer Science and Engineering, The Ohio State University

Fellowships

- 2015– **Pre-Doctoral Fellow**, *National Institutes of Health, Clinical Center*.

Professional Experience

- 2012–2014 **Software Developer**, *Fulcrum Software Solutions*, Dublin, OH, USA.
Designed, developed, and deployed applications in the business and healthcare sectors, using the .NET development stack.
◦ Acted as client contact for design and troubleshooting on multiple projects.

Service

Departmental Service

- 2015– **AI Seminar Coordinator**, *The Ohio State University*, Columbus, OH, USA.
Coordinated bi-weekly seminar series for student presentations on ongoing AI research at Ohio State.

Reviewer

- 2018 ACL, AMIA Informatics, AMIA Annual Summit, COLING, ACL Student Research Workshop
- 2017 ACL, AMIA Annual Summit, EMNLP
- 2016 ACL, AMIA Annual Summit

Other

- 2014– **Volunteer Judge**, *Ohio State Science Day*.
Judged science fair projects of students grades 5–12.
- 2016–2017 **President**, *Columbus Symphony Chorus*, Columbus, OH, USA.

Affiliations

- ACL Association for Computational Linguistics
- ACM Association for Computing Machinery
- AMIA American Medical Informatics Association
- ASEE American Society for Engineering Education