

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

- 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

- 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.
- 2018 **Denis Newman-Griffis**, Albert M Lai, and Eric Fosler-Lusser. Jointly embedding biomedical entities and text with distant supervision. Poster presentation, in *Proceedings of the AMIA Informatics Summit*, 2018.

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

Autumn 2017 CSE 3521 - Survey of Artificial Intelligence I: Basic Techniques
Dept. of Computer Science and Engineering, The Ohio State University

2018– Advising Brendan Whitaker, OSU Mathematics; Research project on properties of language representations that contribute to downstream tasks.

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

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