

## Michael Miller Yoder

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- EDUCATION**      **Carnegie Mellon University**, Pittsburgh, PA  
*Ph.D.*, Language and Information Technologies      Expected 2021  
Advisor: Carolyn P. Rosé  
*M.S.*, Language Technologies      2017
- Goshen College**, Goshen, IN  
*B.A.*, Computer Science      2013  
Minors: English, International Studies
- RESEARCH INTERESTS**      Identity presentation in language, social factors in language, computational sociolinguistics, natural language processing, discourse analysis, digital humanities
- CONFERENCE PUBLICATIONS**      **Perceptions of Censorship and Moderation Bias in Political Debate Forums**  
Qinlan Shen, Michael Miller Yoder, Yohan Jo, Carolyn P. Rosé  
*Proceedings of ICWSM 2018*.
- Roles and Success in Wikipedia Talk Pages: Identifying Latent Patterns of Behavior**  
Keith Maki, Michael Miller Yoder, Yohan Jo, Carolyn P. Rosé  
*Proceedings of IJCNLP 2017*. **Best Student Paper Award**.
- Modeling Dialogue Acts with Content Word Filtering and Speaker Preferences**  
Yohan Jo, Michael Miller Yoder, Hyeju Jang, Carolyn P. Rosé  
*Proceedings of EMNLP 2017*.
- Code-Switching as a Social Act: The Case of Arabic Wikipedia Talk Pages**  
Michael Miller Yoder, Shruti Rijhwani, Carolyn P. Rosé, Lori Levin  
*Proceedings of the Second Workshop on Natural Language Processing and Computational Social Science, 2017*.
- Metaphor Detection with Topic Transition, Emotion and Cognition in Context**  
Hyeju Jang, Yohan Jo, Qinlan Shen, Michael Miller, Shane Moon, Carolyn P. Rosé  
*Proceedings of ACL 2016*.
- JOURNAL ARTICLES**      **Unpacking a Political Icon: “Bike Lanes” and Orders of Indexicality**  
Michael Miller Yoder, Barbara Johnstone  
*Discourse & Communication 12(2), 192–208, 2018*.
- PROJECTS**      **Identity Performance on Tumblr:** Assembled dataset of Tumblr blogs with self-identified identity labels, such as age, gender/sexuality, personality type and ethnicity/nationality. Implemented machine learning system to predict content propagation based on alignment in identity labeling. Identity features led to improved content propagation prediction performance, as well as implications for understanding how self-presentation affects interaction on social media.
- Gender/Sexuality Representations in Fanfiction:** Designed embedding approaches for gender/sexuality identity terms from text and metadata of fanfiction. Led team of master’s students using NLP with fanfiction data to address questions from digital humanities.

**Hate Speech Identification:** Developed hate speech identification system without relying on derogatory terms. Improved identification performance on two Twitter hate speech datasets and provided analysis of potential improvements for better generalization to other hate speech domains.

## EXPERIENCE

### Graduate Research Assistant

2015–present

Carnegie Mellon University

Pittsburgh, PA

Apply computational models of discourse to study social meaning in language on social media. Advised by Prof. Carolyn P. Rosé in the Language Technologies Institute.

### Research Programmer/Analyst

2015

Carnegie Mellon University

Pittsburgh, PA

Designed and implemented neuroimaging database to support machine learning research. Advised by Prof. Timothy Verstynen in the Department of Psychology.

### Software Developer & IT Admin.

2014

GSAREH

Austin, TX area

Developed applications to recognize and map named entities in English and Arabic articles and social media. Managed software development and IT administration of small GIS startup, named Geospatial Applied Research Experts House.

## HONORS & AWARDS

### NSF Graduate Research Fellowship

2015–2018

Awarded national fellowship with a focus area in natural language processing.

## GLOBAL EXPERIENCE

### Bicycle Tourist

2013–2014

Paraguay, South America to Indiana, USA

Bicycled with a group of three over 10,000 miles from South America to the United States on an 11-month self-supported journey. Learned conversational Spanish and gained familiarity with Latin American culture.