Michael Miller Yoder

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5003 Broad St.
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EDUCATION

Carnegie Mellon University, Pittsburgh, PA
Ph.D., Language and Information Technologies   Expected 2021
    Advisor: Carolyn P. Rosé
    Thesis: "Computational Models of Identity Presentation in Language"
M.S., Language Technologies   2017

Goshen College, Goshen, IN
B.A., Computer Science   2013
    Minors: English, International Studies

RESEARCH
INTERESTS

Language and identity, natural language processing, computational sociolinguistics, computational social science, discourse analysis, digital humanities

CONFERENCE &
WORKSHOP
PUBLICATIONS

FanfictionNLP: A Text Processing Pipeline for Fanfiction
Michael Miller Yoder, Sopan Khosla, Qinlan Shen, Aakanksha Naik, Huiming Jin, Hariharan Muralidharan, Carolyn P. Rosé
Proceedings of the Workshop on Narrative Understanding, 2021.

Phans, Stans and Cishets: Self-presentation Effects on Content Propagation in Tumblr
Michael Miller Yoder, Qinlan Shen, Yansen Wang, Alex Coda, Yunseok Jang, Yale Song, Kapil Thadani, Carolyn P. Rosé
Proceedings of the ACM Conference on Web Science (WebSci), 2020. PDF.

Perceptions of Censorship and Moderation Bias in Political Debate Forums
Qinlan Shen, Michael Miller Yoder, Yohan Jo, Carolyn P. Rosé
Proceedings of the International AAAI Conference on Web and Social Media (ICWSM), 2018. PDF.

Roles and Success in Wikipedia Talk Pages: Identifying Latent Patterns of Behavior
Keith Maki, Michael Miller Yoder, Yohan Jo, Carolyn P. Rosé
Proceedings of the International Joint Conference on Natural Language Processing (IJCNLP), 2017. PDF.
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 the Conference on Empirical Methods in Natural Language Processing (EMNLP), 2017. PDF.

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 Workshop on Natural Language Processing and Computational Social Science (NLP+CSS), 2017. PDF.

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 the Association for Computational Linguistics (ACL), 2016. PDF.

Journal Articles	**Unpacking a Political Icon: "Bike Lanes" and Orders of Indexicality** Michael Miller Yoder, Barbara Johnstone *Discourse & Communication, 12*(2), 192–208, 2018.
Articles in Preparation	**Draco, Harry and Intertextuality: Modeling Relationship Changes in Fanfiction** Michael Miller Yoder, Qinlan Shen, Luke Breitfeller, James Fiacco, Aakanksha Naik, Shefali Garg, Ethan Xuanyue Yang, Huiming Jin, Hariharan Muralidharan, Carolyn P. Rosé
Invited Talks	**Computational Models of Identity Presentation in Language** Department of Linguistics, University of Pittsburgh, Pittsburgh, PA, 2020.
Conference Presentations	**Modeling Unstructured Data: Teachers as Learners and Designers of Technology-enhanced Artificial Intelligence Curriculum** Cansu Tatar, Michael Miller Yoder, Madeleline Coven, Kenia Wiedemann, Jie Chao, William Finzer, Shiyan Jiang, Carolyn Rosé International Society of the Learning Sciences, Bochum, Germany, 2021. **"Everyone is Gay and Nothing Hurts":** **The Presentation of Queer Relationships in Fanfiction** Michael Miller Yoder, Luke Breitfeller, Carolyn P. Rosé Association for Computers and the Humanities, Pittsburgh, PA, 2019. **Ron the Death Eater: Plotting Characterization from Canon to Fanfiction** Michael Miller Yoder, Qinlan Shen, James Fiacco, Carolyn P. Rosé Society for Text & Discourse, New York, NY, 2019. **Identity and Interaction on Tumblr** Michael Miller Yoder, Qinlan Shen, Yansen Wang, Alex Coda, Yunseok Jang, Yale Song, Kapil Thadani, Carolyn P. Rosé Student Research Symposium Language Technologies Institute, Carnegie Mellon University, 2019. **Best Poster Award.** **Linguistic Liminality: Tamazight, Arabic and French in Guigou, Morocco** Michael Miller Student Research Symposium, Goshen College, 2013. **Audience Choice Award.**
Teaching	**Computational Ethics for Natural Language Processing** **Spring 2020** *Teaching Assistant* Carnegie Mellon University **Applied Machine Learning** **Spring 2019** *Teaching Assistant* Carnegie Mellon University **Introduction to Artificial Intelligence** **Spring 2013** *Tutor* Goshen College

PROFESSIONAL EXPERIENCE	**Software Engineering Intern**	Yahoo Research/Tumblr

Software Engineering Intern   Yahoo Research/Tumblr
2019   New York, NY
Detected communities of Tumblr users from social network structure. Explored community-specific language use. Advised by Dr. Kapil Thadani.

Graduate Research Assistant   Carnegie Mellon University
2015–present   Pittsburgh, PA
Apply computational models of discourse to study social meaning in language, largely using social media datasets. Advised by Prof. Carolyn P. Rosé in the Language Technologies Institute.

Research Programmer/Analyst   Carnegie Mellon University
2015   Pittsburgh, PA
Designed and implemented neuroimaging database to support machine learning research. Advised by Prof. Timothy Verstynen in the Department of Psychology.

Software Developer &   GSAREH
IT Adminstrator
2014   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 a 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.

President's Leadership Award Scholarship, Goshen College
2009–2013
Awarded top merit scholarship for leadership in academic studies.

MEMBERSHIPS & SERVICE

Reviewing (NLP):
- ACL-IJCNLP 2021
- CoNLL 2020
- Bridging Human-Computer Interaction and NLP Workshop (HCI+NLP) 2021
- NAACL Student Research Workshop 2021
- ACL Student Research Workshop 2020
- AACL-IJCNLP Student Research Workshop 2020
- Human and Machine-in-the-Loop Evaluation and Learning Strategies Workshop (HAMLETS @ NeurIPS) 2020

Reviewing (Digital Humanities)
- Association for Computers and the Humanities (ACH) 2021
- Digital Humanities (DH) 2020

Memberships:
- Association for Computational Linguistics (ACL)
- Association for Computers and the Humanities (ACH)
- Association for the Advancement of Artificial Intelligence (AAAI)

INTERNATIONAL
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.

Researcher and Service Worker

2012   Meknes and Guigou, Morocco

Studied Moroccan language and culture for 12 weeks while living with host families in urban and rural settings. Researched code-switching among Tamazight, French, Colloquial and Modern Standard Arabic speakers in the Middle Atlas Mountains.

Youth Camp Volunteer

2011   West Bank, Palestine & Israel

Studied and practiced Levantine and Modern Standard Arabic for 9 weeks. Participated in history and learning tours of the Israeli-Palestinian conflict while living with a Palestinian friend's family. Facilitated crafts and games for Palestinian youth.