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

    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 PUBLICATIONS

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 Relationships 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** University of Pittsburgh Department of Linguistics, 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 P. 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

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.

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.

Reviewing: Association for Computational Linguistics-International Joint Conference on Natural Language Processing (ACL-IJCNLP) 2021, Bridging Human-Computer Interaction and Natural Language Processing Workshop 2021, NAACL Student Research Workshop 2021, Conference on Computational Natural Language Learning (CoNLL) 2020, Association for Computational Linguistics (ACL) Student Research Workshop 2020 (including mentoring), Digital Humanities 2020, AACL-IJCNLP Student Research Workshop 2020, Human and Machine-in-the-Loop Evaluation and Learning Strategies Workshop (HAMLETS @ NeurIPS) 2020

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

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.

REFERENCES

Carolyn P. Rosé
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School of Computer Science
Carnegie Mellon University
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Lori Levin
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