

Steven R. Wilson

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CURRENT POSITION	Oakland University , Rochester, Michigan Assistant Professor, Computer Science & Engineering	Aug 2021 – Present
EDUCATION	University of Michigan , Ann Arbor, Michigan Ph.D., Computer Science & Engineering • Thesis Title: Natural Language Processing for Personal Values and Human Activities • Advisor: Rada Mihalcea M.S., Computer Science & Engineering Taylor University , Upland, Indiana B.S., Computer Science/Systems • Summa cum laude • Minor in psychology • Concentration in Intelligent Systems	Jan 2019 Apr 2015 May 2013
RESEARCH EXPERIENCE	Institute for Language, Cognition, and Computation , University of Edinburgh Postdoctoral Research Associate, SMASH Lab • Supervisor: Walid Magdy • Research areas: Natural language processing, Computational Social Science Artificial Intelligence Lab , University of Michigan Postdoctoral Research Fellow, LIT Lab • Supervisor: Rada Mihalcea • Research areas: Natural language processing, Computational Social Science Graduate Student Research Assistant, LIT Lab • Supervisor: Rada Mihalcea • Research areas: Natural language processing, Computational Social Science Automated Imagery Analysis Group , SPAWAR Systems Center Pacific Research Intern • Project: Automated detection of oil spills from Synthetic Aperture Radar imagery • Supervisor: Bryan Bagnall • Research areas: Computer Vision, Machine Learning Advanced Concepts Lab , Lockheed-Martin Advanced Technology Labs College Student Technical Specialist • Project: Proprietary research • Supervisor: Ricardo Correa • Research areas: Cybersecurity, Mobile Devices, Malware Taylor University Research , Taylor University Research Intern, Department of Computer Science & Engineering • Project: Proprietary research for Lockheed-Martin • Supervisors: Stefan Brandle, Arthur White • Research areas: Cybersecurity, Operating Systems	Sep 2019 – Jul 2021 Feb 2019 – Jul 2019 Jan 2014 – Jan 2019 Jun 2013 – Aug 2013 Jun 2012 – Aug 2012 May 2011 – Jan 2012
PUBLICATIONS	PEER-REVIEWED 1) Meaney, J. A., <u>Wilson, S. R.</u> , Chiruzzo, L., Lopez, A., & Magdy, W. SemEval-2021 Task 7: HaHackathon, Detecting and Rating Humor and Offense. <i>International Workshop on Semantic Evaluation at ACL-IJCNLP</i> . Virtual, Aug 2021 2) Elsafoury, F., Katsigiannis, S., <u>Wilson, S. R.</u> , & Ramzan, N. Does BERT pay attention to cyberbullying? <i>In Proceedings of the International ACM SIGIR Conference on Research and Development in Information Retrieval</i> . Virtual, Jul 2021 3) Hennig, F. & <u>Wilson, S. R.</u> . Diachronic Embeddings for People in the News. <i>Workshop on NLP and Computational Social Science at EMNLP</i> . Virtual, Nov 2020. 4) Li, J.,* Longinos, G.,* <u>Wilson, S. R.</u> , & Magdy, W. Emoji and Self-Identity in Twitter Bios. <i>Workshop on NLP and Computational Social Science at EMNLP</i> . Virtual, Nov 2020.	

* Equal Contributions

- 5) Wilson, S. R., Magdy, W., McGillivray, B., & Tyson, G. Embedding Structured Dictionary Definitions. *Workshop on Insights from Negative Results in NLP at EMNLP*. Virtual, Nov 2020.
- 6) Wilson, S. R., Magdy, W., McGillivray, B., & Tyson, G. Analyzing Temporal Relationships between Trending Terms on Twitter and Urban Dictionary Activity. *In Proceedings of the Web Science Conference*. Virtual, Jul 2020.
- 7) Bahgat, M., Wilson, S. R., & Magdy, W. Towards Using Word Embedding Vector Space for Better Cohort Analysis. *In Proceedings of the International Conference on Web and Social Media*. Virtual, Jun 2020.
- 8) Wilson, S. R., Magdy, W., McGillivray, B., Garimella, K., & Tyson, G. Urban Dictionary Embeddings for Slang NLP Applications. *In Proceedings of the Language Resources and Evaluation Conference*. Virtual, May 2020.
- 9) Rechkemmer, A., Wilson, S. R., & Mihalcea, R. Small Town or Metropolis? Analyzing the Relationship between Population Size and Language. *In Proceedings of the Language Resources and Evaluation Conference*. Virtual, May 2020.
- 10) Shen, Y.,* Wilson, S. R.,* & Mihalcea, R. Measuring Personal Values in Cross-Cultural User-Generated Content. *In Proceedings of the International Conference on Social Informatics*. Doha, Qatar, Nov 2019.
- 11) Wilson, S. R., & Mihalcea, R. Predicting Human Activities from User-Generated Content. *In Proceedings of the Annual Meeting of the Association of Computational Linguistics*. Florence, Italy, Jul 2019.
- 12) Zhang, L., Wilson, S. R., & Mihalcea, R. Multi-Label Transfer Learning for Multi-Relational Semantic Similarity. *In Proceedings of the Eighth Joint Conference on Lexical and Computational Semantics*. Minneapolis, USA, Jun 2019.
- 13) Wilson, S. R., Shen, Y., & Mihalcea, R. Building and Validating Hierarchical Lexicons with a Case Study on Personal Values.[†] *In Proceedings of the International Conference on Social Informatics*. St. Petersburg, Russia, Sep 2018.
- 14) Li, Y., Mihalcea, R., and Wilson, S. R.. Text-based Detection and Understanding of Changes in Mental Health. *In Proceedings of the International Conference on Social Informatics*. St. Petersburg, Russia, Sep 2018.
- 15) Wilson, S. R., & Mihalcea, R. Measuring Semantic Relations between Human Activities. *In Proceedings of the International Joint Conference on Natural Language Processing*. Taipei, Taiwan, Nov 2017.
- 16) Wilson, S. R., Mihalcea, R., Boyd, R.L., & Pennebaker, J. W. Disentangling Topic Models: A Cross-cultural Analysis of Personal Values through Words. *In the Workshop on Natural Language Processing and Computational Social Science at EMNLP*. Austin, TX, Nov 2016.
- 17) Ruan, X., Wilson, S. R., & Mihalcea, R. Finding Optimistic and Pessimistic Users on Twitter. *In Proceedings of the Annual Meeting of the Association of Computational Linguistics*. Berlin, Germany, Aug 2016.
- 18) Wilson, S. R., Mihalcea, R., Boyd, R.L., & Pennebaker, J. W. Cultural Influences on the Measurement of Personal Values through Words. *In Proceedings of the 2016 AAAI Spring Symposium Series*. Stanford, CA, Mar 2016.
- 19) Boyd, R. L.,* Wilson, S. R.,* Pennebaker, J. W., Kosinski, M., Stillwell, D., & Mihalcea, R. Values in Words: Using Language to Evaluate and Understand Personal Values. *In Proceedings of the Ninth AAAI International Conference on Web and Social Media*, Oxford, UK, May 2015.

E-PRINT/OTHER

[†] Best Paper Award

* Equal Contributions

- 1) Burdick, L., Wang, M., Ignat, O., Wilson, S. R., Zhang, Y., Wei, Y., Mihalcea, R., and Deng, J. Building a Flexible Knowledge Graph to Capture Real-World Events. *Text Analysis Conference*. Nov 2019.
- 2) Burdick, L., Wilson, S. R., Ignat, O., Welch, C., Zhang, L., Wang, M., Deng, J., and Mihalcea, R. Entity and Event Extraction from Scratch Using Minimal Training Data. *Text Analysis Conference*. Nov 2018.
- 3) Zhang, L., Wilson, S. R., and Mihalcea, R. Sequential Network Transfer: Adapting Sentence Embeddings to Human Activities and Beyond. *arXiv:1804.07835 [cs.CL]*. Apr 2018.
- 4) Pappas, K., Wilson, S. R., and Mihalcea, R. Stateology: State-Level Interactive Charting of Language, Feelings, and Values. *arXiv:1612.06685 [cs.CL]*. Dec 2016.
- 5) Radev, D., Zhang, R., Wilson, S. R., Van Assche, D., Gubert, H. S., Krivokapic, A., Dong, M., Wu, C., Bondera, S., Brandl, L., and Dohnmann, J. Cruficorn: Solving Crosswords with Natural Language Processing. *arXiv:1611.02360 [cs.CL]*. Nov 2016.

**ACADEMIC
HONORS
& AWARDS**

Michigan Artificial Intelligence Lab Symposium "Greatest Societal Impact" Awarded for poster presentation: "Clustering Human Activity Expressions"	2018
Best Paper Award International Conference on Social Informatics Awarded for the paper: "Building and Validating Hierarchical Lexicons with a Case Study on Personal Values"	2018
Rackham Graduate School Conference Travel Grant University of Michigan, Ann Arbor, MI Provides monetary allowance for academic conference travel. Awarded Yearly.	2015 – 2018
Michigan Institute for Data Science Annual Symposium "Most Likely Societal Impact" Awarded for poster presentation: "Disentangling Topic Models: A Cross-cultural Analysis of Personal Values through Words"	2016
Outstanding Computer Science Graduate Taylor University, Upland, IN Awarded to one student each year, selected by the faculty of Computer Science & Engineering.	2013
President Scholarship, Taylor University, Upland, IN Highest tier of merit based academic scholarship awarded by the university.	2009 – 2013
AP Scholar with Distinction The College Board For receiving an average score of at least 3.5 on all Advanced Placement exams taken, and scores of 3 or higher on five or more of these exams.	2009

**PROFESSIONAL
ACTIVITIES**

SERVICE	
Co-organizer/Co-founder University of Edinburgh Computational Social Science Reading Group	Mar 2020 – Present
Organizer University of Michigan Natural Language Processing Reading Group	Sep 2015 – Jul 2019
Program Committee Member / Reviewer – Conferences & Workshops CIKM 2021, GeBNLP @ ACL-IJCNLP 2021, SemEval 2022 (task proposals), SocialNLP @ NAACL 2021, SocialNLP @ TheWebConf 2021, SemEval 2021 (Task 7 systems), ACL/IJCNLP 2021, CSCW 2021, SRW @ NAACL 2021, NAACL 2021, EAACL 2021, AAAI 2021, NLP+CSS @ EMNLP 2020, CoNLL 2020, EMNLP 2020, W-NUT @ EMNLP 2020, GeBNLP @ COLING 2020, LREC 2020, AAAI 2020, CoNLL 2019, IJCNLP-EMNLP 2019, SocialNLP @ IJCAI 2019, ACL 2019, NLP+CSS @ NAACL 2019, NAACL 2019, AAAI 2019, EMNLP 2018, LREC 2018, EMNLP 2017, NLP+CSS @ ACL 2017, COLING 2016, WWW 2016, EMNLP 2015	
Invited Reviewer – Journals Online Social Networks and Media 2020/2021, Frontiers in AI 2020, Information 2020, Applied Sciences 2019, Computer Speech and Language 2017, Psychological Methods 2017, Journal of the Association for Information Science and Technology 2017	

Volunteering

Virtual conference volunteer at ACL 2020, Post-acceptance mentor for ACL Student Research Workshop 2020, Instructor at CS Kickstart 2017, Student Volunteer at EMNLP 2016, Session Facilitator at Girls Encoded 2016, Volunteer at Girls Encoded 2015, Session Facilitator at Xplore Engineering 2014 & 2015

Secondary Reviewer

CIKM 2020, ACM Hypertext 2020, JAIR 2016

MEMBERSHIPS

The Association for Computational Linguistics 2015 – Present

The Association for the Advancement of Artificial Intelligence 2015 – 2018

CONFERENCES ATTENDED

Main Conferences

EMNLP 2020, WebSci 2020, ACL 2020, SocInfo 2019, ACL 2019, *SEM 2019, NAACL 2019, SocInfo 2018, IC2S2 2018, IJCNLP 2017, EMNLP 2016, IC2S2 2016, MSLD 2016, ICWSM 2015, ICWSM 2014

Workshops

NLP+CSS @ EMNLP 2020, INSIGHTS @ EMNLP 2020, EurNLP 2019, NLP+CSS @ NAACL 2019, Midwest Speech and Language Days (MSLD) 2019, MSLD 2018, MSLD 2017, SocialNLP @ EMNLP2016, NLP+CSS @ EMNLP2016, AAAI Spring Symposium: OSSM 2016, Workshop on Standards and Practices in Large-Scale Social Media Research @ ICWSM 2015, MSLD 2015

Summer/Winter Schools

2nd HUMAINT Winter School on Fairness, Accountability, and Transparency in AI 2020, École Polytechnique and DATAIA Institute Data Science Summer School 2019

TEACHING

School of Informatics, University of Edinburgh

University Teacher (Instructor)

Fall 2020 – Winter 2021

INFR11145: Text Technologies for Data Science

Guest Lecturer

Nov 2019

INFR11145: Text Technologies for Data Science, *Lecture title: "Comparing Text Corpora"*

Data Science Summer School, École Polytechnique and DATAIA Institute

Tutorial Organizer

Jun 2019

Fundamentals of Text Analysis for User Generated Content

Department of Electrical Engineering and Computer Science, University of Michigan

Guest Lecturer

Winters, 2017 – 2019

EECS 486: Information Retrieval, *Lecture title: "Topic Modeling"*

Graduate Student Instructor

Fall 2017

EECS 595: Natural Language Processing

Graduate Student Instructor

Fall 2013

EECS 280: Programming and Introductory Data Structures

The Center for Research in Teaching and Learning, University of Michigan

Practice Teaching Facilitator

Winter 2016 – Fall 2017

Engineering Teaching Consultant

Fall 2015 – Winter 2017

Graduate Student Instructor Training - Workshop Facilitator

Fall 2015 – Winter 2017

Department of Computer Science & Engineering, Taylor University

Laboratory Assistant

Spring 2012

COS 121: Foundations of Computer Science II

STUDENT ADVISING

Guillem Ramírez, M.Sc. '21, University of Edinburgh

Mar 2021 – Aug 2021

Semantic representation for armed conflict event descriptions

Luna Yang, M.Sc. '21, University of Edinburgh

Mar 2021 – Aug 2021

Visual Misinformation on Social Media during the COVID-19 Pandemic

Charalambos Ioannou, M.Sc. '21, University of Edinburgh

Mar 2021 – Aug 2021

Visual Misinformation on Social Media during the COVID-19 Pandemic

Yue Pan , M.Sc. '21, University of Edinburgh Cross-lingual Analysis of COVID-19 Rumor Sharing on Social Media	Mar 2021 – Aug 2021
Chenxin Diao , B.Sc. '21, University of Edinburgh Rumor Verification on Social Media	Apr 2020 – Jul 2021
Tia Deviyani , B.Sc. '21, University of Edinburgh Semantic Word Categorization for English Slang	Jul 2020 – Dec 2020
Felix Hennig , M.Sc. '20, University of Edinburgh Discovering Temporal Trends in Entity Representations from News Text	Mar 2020 – Sep 2020
Faisal Alothman , M.Sc. '20, University of Edinburgh Assessing Social Situations with NLP models	Mar 2020 – Sep 2020
Jinhang Li , M.Sc. '20, University of Edinburgh Analyzing the Relationship between Emoji Use and Self-Identity on Twitter	Mar 2020 – Sep 2020
Giorgos Longinos , M.Sc. '20, University of Edinburgh Analyzing the Relationship between Emoji Use and Self-Identity on Twitter	Mar 2020 – Sep 2020
Yiting Shen , B.S.E. '18, M.S. '19, University of Michigan Evaluation and Weighting of a Lexicon for Personal Values	May 2017 – May 2019
Amy Rechkemmer , B.S.E. '18, University of Michigan Content Analysis of Urban and Rural Twitter Users	Dec 2017 – May 2019
Li Zhang , B.S.E. '18, University of Michigan Language Understanding and Semantic Similarity of Short Texts	Sep 2017 – Dec 2018
Anamaria Cuza , B.S.E. '21, University of Michigan Exploration of Bias in NLP Data Annotation	Dec 2017 – Dec 2018
Zheng Wu , M.S. '17, University of Michigan Comparison of Topic Modeling Methods	Jan 2016 – May 2017
Renhan Zhang , M.S. '16, University of Michigan A System for the Collection of Psycholinguistic Social Media Data	Jun 2015 – Jan 2016
Xianzhi Ruan , B.S.E. '16, University of Michigan Finding and Predicting Optimistic and Pessimistic Users on Twitter	May 2015 – Jan 2016

PRESENTATIONS TALKS

Social Data Science Interest Group The Alan Turing Institute, London, UK “The Semantic Space of Human Activities”	Oct 2019
Information Retrieval Seminar University of Glasgow, Glasgow, UK “The Semantic Space of Human Activities”	Oct 2019
#UMTweetCon2019 Institute for Social Research , University of Michigan, Ann Arbor, MI “Predicting Human Activities from User-Generated Content”	May 2019
Artificial Intelligence Lab Honors Competition University of Michigan, Ann Arbor, MI “Measuring Semantic Relations between Human Activities”	Oct 2017
International Conference on Computational Social Science Northwestern University, Evanston, IL “Cultural Influences on the Measurement of Psychological Phenomena: Value-behavior Relationships in India and the United States”	Jun 2016
Midwest Speech and Language Days University of Indiana, Bloomington “Cultural Influences on the Measurement of Personal Values through Words”	May 2016

- Artificial Intelligence Lab Mini-Symposium** May 2015
University of Michigan, Ann Arbor, MI
“Values in Words: Using Language to Evaluate and Understand Personal Values”
- Midwest Speech and Language Days** May 2015
Toyota Institute of Technology, Chicago, IL
“Values in Words: Using Language to Evaluate and Understand Personal Values”
- Michigan College of Engineering “Recruit at Home” Event** Oct 2014
College of Natural & Applied Science, Taylor University, Upland, IN
“Navigating Graduate School”
Sponsored by the University of Michigan College of Engineering

POSTERS

- Midwest Speech and Language Days** May 2019
Toyota Institute of Technology, Chicago, IL
“Clustering and Predicting Human Activities”
- University of Michigan Artificial Intelligence Lab Symposium** Nov 2018
University of Michigan, Ann Arbor, MI
“Clustering Human Activity Expressions”
- International Conference on Computational Social Science** Jul 2018
Northwestern University, Evanston, IL
“Relating Human Activities with Phrasal Embeddings”
- International Conference on Computational Social Science** Jul 2018
Northwestern University, Evanston, IL
“Crowd-Powered Concept Sorting for Lexicon Creation”
- Midwest Speech and Language Days** May 2017
Toyota Institute of Technology, Chicago, IL
“Measuring Semantic Relations between Human Activities”
- University of Michigan Data Science Symposium** Nov 2016
University of Michigan, Ann Arbor, MI
“Disentangling Topic Models: A Cross-cultural Analysis of Personal Values through Words”
- Society for Personality and Social Psychology** Feb 2015
Long Beach, CA
“Language and values: Understanding human values with language and language categories.”

SYSTEMS **Language and Information Technology research group**, University of Michigan
ADMINISTRATION Systems Administrator for LIT Lab Network Jun 2014 – Nov 2018
Software Skills: *Ubuntu, NIS, Apache, MySQL*

REFERENCES Available Upon Request

[CV Compiled on 2021-08-16]