Alan Ritter

CONTACT		
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	Google Scholar Profile:	https://scholar.google.com/citations?user=unXtH3IAAAAJ

RESEARCH

The goal of my research is to invent new methods that enable computers to better understand natural language at scale, and demonstrate the potential for new applications this will enable.

EDUCATION

University of Washington, Seattle, WA USA

Ph.D. in Computer Science & Engineering

Western Washington University, Bellingham, WA USA

B.S./M.S., Computer Science, December 2006

PROFESSIONAL EXPERIENCE

The Ohio State University, Columbus OH USA
Assistant Professor - Computer Science and Engineering — **August 2014 - ...**
Carnegie Mellon University, Pittsburgh PA USA
Visiting Faculty - Language Technologies Institute — **May 2019 - August 2019**
Postdoctoral Fellow - Machine Learning Department — **August 2013 - August 2014**
Microsoft Research, Redmond WA USA
Consultant - Natural Language Processing Group — **2014 - 2016**
Intern - Natural Language Processing Group — **June 2009 - September 2009**
Intern - Knowledge Tools Group (Machine Learning Department) — **June 2008 - August 2008**
Naval Research Laboratory, Marine Meteorology Division, Monterey, CA USA
Intern - Data Assimilation Group — **June 2006 - August 2006**

GRANTS AND AWARDS

NSF CAREER, ($499,997), Large-Scale Learning for Information Extraction, 2019-2024
DARPA, ($800,000), Logically Adaptive Molecular Design Automation (LAMDA), 2019-2023
IARPA, ($850,000), Task and User-Aware Representation Learning for Fine-Grained Cross-Lingual Information Retrieval, 2019-2023
NSF CRII, ($151,299) III: Learning to Extract Events from Knowledge Base Revisions, 2015-2018
Amazon Research Award, ($50,000) Integrating Data-Driven Conversation in Open-Domain Question Answering, 2018
DARPA ($600,000) Modeling the Spread of Information through Social and Knowledge Graphs, 2017-2021
IARPA ($507,016) Extracting a Realtime Cybersecurity Knowledge Graph from Text, 2016-2019
CMU Software Engineering Institute ($40,000) Events, relationships, and script learning for situational awareness, 1/2017-9/2017
NIH (co-PI with Po-Yin Yen) ($100,000) Supporting systematic review production with article similarity network visualization, 2016-2018
Criteo Faculty Research Award (co-PI with Wei Xu) ($20,000) 2018
Battelle BETHA Award (co-PI with Marie-Catherine de Marneffe) ($23,000) Trustworthiness in Social Media, 2017-2019
NDSEG Fellowship (2008)
Best Student Paper Award for *Learning to Generalize for Complex Selection Tasks* at the ACM Conference on Intelligent User Interfaces (2009)
Outstanding Student Organization Advisor Award, College of Engineering, Ohio State University (2018)
Lumley Research Award, College of Engineering, Ohio State University (2019)

EXTERNAL THESIS COMMITTEE	*Alex Memory* Collective Relational Data Integration with Diverse and Noisy Evidence (Advisor: Lise Getoor) University of Maryland	October 2019
	Young-Bum Kim Natural Language Technologies for Low-Resource Languages (Advisor: Benjamin Snyder) University of Wisconsin	PhD, Feb 2015

RECENT INVITED TALKS

Twitter, June 2019
University of Michigan, April 2019
University of Maryland, April 2019
Rice University, March 2019
University of Wisconsin, January 2019
Google Assistant and Dialogue Workshop, June 2018
Stanford NLP Seminar, May 2018
NIPS Workshop on Learning With Limited Labeled Data, December 2017
Microsoft Research Faculty Summit, July 2017
Google Natural Language Understanding Workshop, July 2017
Midwest Machine Learning Symposium, June 2017
University of Edinburgh, July 2016
Machine Learning Seminar, Purdue University, December 2015
School of Computer Science, Carnegie Mellon University, April 2015

SERVICE

Organizer ACL Workshop on Noisy User-Generated Text (WNUT 2015, 2016, 2017, 2018, 2019), Sentiment Analysis in Twitter Shared Task (SemEval 2013,2014,2015,2016), Named Entity Recognition in Twitter Shared Task (at WNUT 2015, 2016)

Area Chair ACL 2014 (NLP for the web and social media), NAACL 2015 (Information Extraction and Question Answering), EMNLP 2016 (Information Extraction, Information Retrieval and Question Answering), NAACL 2018 (Computational Social Science), EMNLP 2018 (Text Mining and Information Retrieval), CoNLL 2018, ACL 2019 (Information Extraction and Text Mining), EMNLP 2019 (Social Media and Computational Social Science)

Steering Committee SemEval 2016,2018,2019,2020

Research Proposal Reviewing Panelist for U.S. National Science Foundation, IIS, (Twice in 2017, Twice in 2018, 2019), Independent Reviewer for Hong Kong Research Grants Council (2016), Independent Reviewer for Natural Sciences and Engineering Research Council of Canada (2016), Independent Reviewer U.S. Department of Energy (2015)

PUBLICATIONS

Fan Bai, **Alan Ritter**
"Structured Minimally Supervised Learning for Neural Relation Extraction"
To Appear in Proceedings of NAACL 2019

Shi Zong, **Alan Ritter**, Graham Mueller and Evan Wright
"Analyzing the Perceived Severity of Cybersecurity Threats Reported on Social Media"
To Appear in Proceedings of NAACL 2019 [Covered by WIRED]

Ashutosh Baheti, **Alan Ritter**, Jiwei Li, Bill Dolan
"Generating More Interesting Responses in Neural Conversation Models with Distributional Constraints"
Proceedings of EMNLP 2018

Chaitanya Kulkarni, Wei Xu, **Alan Ritter**, Raghu Machiraju
"An Annotated Corpus for Machine Reading of Instructions in Wet Lab Protocols"
Proceedings of NAACL 2018 (short paper)

Jiwei Li, Will Monroe, Tianlin Shi, Sbastien Jean, **Alan Ritter**, Dan Jurafsky
"Adversarial Learning for Neural Dialogue Generation"
Proceedings of EMNLP 2017

Sandesh Swamy, **Alan Ritter** and Marie-Catherine de Marneffe
"i have a feeling trump will win..................: Forecasting Winners and Losers from User Predictions on Twitter"
Proceedings of EMNLP 2017

Alexander Konovalov, Benjamin Strauss, **Alan Ritter** and Brendan O'Connor
"Learning to Extract Events from Knowledge Base Revisions"
Proceedings of WWW 2017

Jiwei Li, Will Monroe, **Alan Ritter**, Michel Galley, Jianfeng Gao, Dan Jurafsky
"Deep Reinforcement Learning for Dialogue Generation"
Proceedings of EMNLP 2016

Jeniya Tabassum, **Alan Ritter**, Wei Xu
"A Minimally Supervised Method for Recognizing and Normalizing Time Expressions in Twitter"
Proceedings of EMNLP 2016

Xinlei Chen, **Alan Ritter**, Abhinav Gupta and Tom Mitchell
"Sense Discovery via Co-Clustering on Images and Text"
Proceedings of CVPR 2015

Alan Ritter, Evan Wright William Casey and Tom Mitchell
"Weakly Supervised Extraction of Computer Security Events from Twitter"
Proceedings of WWW 2015

Tom Mitchell, William Cohen, Estevam Hruschka, Partha Talukdar, Justin Betteridge, Andrew Carlson, Bhavana Dalvi, Matt Gardner, Bryan Kisiel, Jayant Krishnmurthy, Ni Lao, Kathryn Mazaitis, Tahir Mohammad, Ndapa Nakashole, Emmanouil Antonios Platanios, **Alan Ritter**, Mehdi Samadi, Burr Settles, Richard Wang, Derry Wijaya, Abhinav Gupta, Xinlei Chen, Abulhair Saparov, Malcolm Greaves and Joel Welling
"Never Ending Learning"
Proceedings of AAAI 2015

Jiwei Li, **Alan Ritter**, Claire Cardie and Eduard Hovy
"Major Life Event Extraction from Twitter based on Congratulations/Condolences Speech Acts"
Proceedings of EMNLP 2014

Jiwei Li, **Alan Ritter** and Eduard Hovy
"Weakly Supervised User Profile Extraction from Twitter"
Proceedings of ACL 2014

Wei Xu, **Alan Ritter**, Chris Callison-Burch, William B. Dolan and Yangfeng Ji
"Extracting Lexically Divergent Paraphrases from Twitter"
Proceedings of TACL 2014

Alan Ritter, Luke Zettlemoyer, Mausam and Oren Etzioni
"Modeling Missing Data in Distant Supervision for Information Extraction"
Proceedings of TACL 2013

Alan Ritter, Mausam, Oren Etzioni, Sam Clark
"Open Domain Event Extraction from Twitter"
Proceedings of KDD 2012

Wei Xu, **Alan Ritter**, Bill Dolan, Ralph Grishman, Colin Cherry
"Paraphrasing for Style"
Proceedings of Coling 2012

Alan Ritter, Sam Clark, Mausam, Oren Etzioni
"Named Entity Recognition in Tweets: An Experimental Study"
Proceedings of EMNLP 2011

Alan Ritter, Colin Cherry, Bill Dolan
"Data-Driven Response Generation in Social Media"
Proceedings of EMNLP 2011

Alan Ritter, Mausam and Oren Etzioni
"A Latent Dirichlet Allocation Method for Selectional Preferences"
Proceedings of ACL 2010

Alan Ritter, Colin Cherry and Bill Dolan
"Unsupervised Modeling of Twitter Conversations"
Proceedings of HLT-NAACL 2010

Alan Ritter and Sumit Basu
"Learning to Generalize for Complex Selection Tasks"
Best Student Paper Award
Proceedings of IUI 2009

Alan Ritter, Doug Downey, Stephen Soderland, and Oren Etzioni
"It's a Contradiction – No, It's Not: A Case Study using Functional Relations"
Proceedings of EMNLP 2008