Alan Ritter

Contact	E-mail: Webpage: Google Scholar:	alan.ritter@cc.gatech.edu http://aritter.github.io/ https://scholar.google.com/citations?user=unXtH3IAAAAJ	
	Natural Language	e Processing, Information Extraction, Dialogue	
Education	 University of Washington, Seattle, WA USA Ph.D. in Computer Science & Engineering, 2013 Western Washington University, Bellingham, WA USA B.S./M.S., Computer Science, 2006 		
Professional Appointments	-	te of Technology, Atlanta GA USA essor - School of Interactive Computing, College of Computing	2020 - Present
	Associate Profe	University , Columbus OH USA essor - Computer Science and Engineering essor - Computer Science and Engineering	2020 2014 - 2020
	Visiting Facult	n University, Pittsburgh PA USA y - Language Technologies Institute ellow - Machine Learning Department	2019 2013 - 2014
	Consultant - N Intern - Natura	arch, Redmond WA USA Vatural Language Processing Group al Language Processing Group Vedge Tools Group	2014 - 2016 2009 2008
		Laboratory, Marine Meteorology Division , Monterey, C Assimilation Group	A USA 2006
Grants as PI	 NSF, (\$500k), CAREER: Large-Scale Learning for Information Extraction, 2019-2024 IARPA, (\$491,467), Stable, Interpretable, and General Neural Attribution for Trust of Users and Robust Effacement (SIGNATURE), 2022-2024 DARPA, (\$800k), Logically Adaptive Molecular Design Automation (LAMDA), 2019-2023 IARPA, (\$850k), Task and User-Aware Representation Learning for Fine-Grained Cross-Lingual Information Retrieval, 2019-2023 NSF, (\$151k), CRII: Learning to Extract Events from Knowledge Base Revisions, 2015-2018 Amazon Research Award, (\$50k) Integrating Data-Driven Conversation in Open-Domain Question Answering, 2018 DARPA (\$600k) Modeling the Spread of Information through Social and Knowledge Graphs, 2017-2021 IARPA (\$507k) Extracting a Realtime Cybersecurity Knowledge Graph from Text, 2016-2019 CMU Software Engineering Institute (\$40k) Events, relationships, and script learning for situational awareness, 1/2017-9/2017 		

Grants as Co-PI or Senior Personnel	 NSF (PI:Sonia Chernova) AI Institute for Collaborative Assistance and Responsive Interaction for Networked Groups (AI-CARING), 2021-Present NSF (PI:Betsy DiSalvo) (\$399,634) The Cost of AI: A Comparative Study of Machine Learning Training Methods 2024-Present NIH (PI:Po-Yin Yen) (\$100k) Supporting systematic review production with article similarity network visualization, 2016-2018 Criteo Faculty Research Award (PI:Wei Xu) (\$20k) 2018 Battelle (PI:Marie de Marneffe) (\$23k) Trustworthiness in Social Media, 2017-2019 			
Press Coverage	 LLMs exhibit significant Western cultural bias, study finds, VentureBeat (March 2024) https://venturebeat.com/ai/large-language-models-exhibit-significant-western-cultural-bias-study-finds/ This article covers the work described in our ACL 2024 paper, entitled "Having Beer after Prayer? Measuring Cultural Bias in Large Language Models" 			
	GPT-3 mimics human love for 'offensive' Reddit comments, study finds , TNW (August 2021) https://thenextweb.com/news/gpt-3-and-humans-twice-as-likely-agree-with-offensive-reddit-comments-chatbots			
	 This article covers the work described in our EMNLP 2021 paper, entitled "Just Say No: Analyzing the Stance of Neural Dialogue Generation in Offensive Contexts" 			
	Machine Learning Can Use Tweets to Spot Critical Security Flaws, WIRED (March 2019) https://www.wired.com/story/machine-learning-tweets-critical-security-flaws/			
	• This article covers the work described in our NAACL 2019 paper, entitled "Analyzing the Per- ceived Severity of Cybersecurity Threats Reported on Social Media"			
Awards	 Social Impact Award for Having Beer after Prayer? Measuring Cultural Bias in Large Language Models at ACL (2024) Reproduction Award for Do CoNLL-2003 Named Entity Taggers Still Work Well in 2023? at ACL (2023) NSF CAREER Award, (2019) Amazon Research Award, (2018) 			
	Lumley Research Award, College of Engineering, Ohio State University (2019) Outstanding Student Organization Advisor, College of Engineering, Ohio State University			
	 (2018) Best Student Paper Award for Learning to Generalize for Complex Selection Tasks at the ACM Conference on Intelligent User Interfaces (2009) NDSEG Fellowship (2008) 			
External Thesis Committees	Hassan Shavarani PhD, December 2024 Structured Prediction for Compute Efficient and High Accuracy NLP (Advisor: Anoop Sarkar) Simon Frasier University			
	Evangelia Spiliopoulou PhD, Jan 2023 Modeling Event Implications via Multi-faceted Entity Representations (Advisor: Eduard Hovy) Carnegie Mellon University			
	Alex Memory PhD, Oct 2019 Collective Relational Data Integration with Diverse and Noisy Evidence (Advisor: Lise Getoor) University of Maryland			

Young-Bum Kim PhD, Feb 2015 Natural Language Technologies for Low-Resource Languages (Advisor: Benjamin Snyder) University of Wisconsin

INVITED TALKS Talk at University of California San Diego, May 2024

Talk at University of California Irvine, March 2024 BrainLink Workshop, December 2023 University of Chicago / TTIC, November 2023 Allen Institute for Artificial Intelligence, October 2023 University of Washington, October 2023 Matching Workshop at ACL, July 2023 University of Pennsylvania, February 2023 Princeton University, October 2022 Columbia University, October 2022 New York University, October 2022 Google New York, October 2022 Johns Hopkins University, May 2022 Megagon Labs, January 2022 Twitter, September 2021 University of Notre Dame, September 2021 University of Maryland, April 2020 UMass Amherst, February 2020 NeurIPS Workshop on Conversational AI, December 2019 Georgia Institute of Technology, December 2019 Twitter, June 2019 University of Michigan, April 2019 University of Maryland, April 2019 Rice University, March 2019 University of Wisconsin, January 2019 Stanford NLP Seminar, May 2018 NeurIPS Workshop on Learning With Limited Labeled Data, December 2017 Microsoft Research Faculty Summit, July 2017 Midwest Machine Learning Symposium, June 2017 University of Colorado, March 2017 University of Edinburgh, July 2016 University of North Carolina, March 2016 Tsinghua University, December 2016 Machine Learning Seminar, Purdue University, December 2015 Statistics Department, Ohio State University, October 2015 School of Computer Science, Carnegie Mellon University, April 2015 CLIP, University of Maryland, March 2015 Clunch, University of Pennsylvania, September 2014 University of Pittsburgh, January 2014 Machine Learning Lunch, Carnegie Mellon University, October 2013 IEEE Intelligence and Security Informatics, June 2013 Toyota Technological Institute at Chicago, April 2013 Microsoft Research, April 2013 University of Texas at Dallas, March 2013 The Ohio State University, March 2013 Machine Learning and Friends Lunch, University of Massachusetts Amherst, March 2013 Human Language Technology Center of Excellence, March 2013 Microsoft Research, September 2011 Pacific Northwest National Laboratory, January 2013 New York University, September 2012

	 Wavii, April 2012 Facebook, March 2012 Google Research, September 2011 Yahoo! Labs, September 2011 Twitter, May 2011 Information Sciences Institute, University of Southern California, February 2011 ICT workshop on Reasoning with Text, February 2011 UW CSE Industrial Affiliates Meeting, October 2009 UW/Microsoft Quarterly Symposium on Computational Linguistics, October 2009 Boeing Research, February 2008
Ph.D. Students	Geyang Guo Ruohao Guo Junmo Kang Duong Minh Le Nghia Max Le Ethan Mendes Jungsoo Park Jonathan Zheng
Alumni	 Yang Chen. Extracting Knowledge with Multimodal and Multilingual Intelligent Systems. (Ph.D. Georgia Institute of Technology, 2024) Fan Bai (Ph.D. Georgia Institute of Technology 2023, M.S. Ohio State University, 2020) Sandesh Swamy. Forecasting Event Outcomes from User Predictions on Twitter. (M.S., Ohio State University, 2017) Jeniya Tabassum. Information Extraction From User Generated Noisy Texts. co-advised with Wei Xu (Ph.D., Ohio State University, 2020) Shi Zong. Extracting Events from Social Media and the Web. (Ph.D., Ohio State University, 2020)
TEACHING	GT CS 4650: Natural Language Processing (Fall 2024) GT CS 8803: Large Language Models (Spring 2024) GT CS 4650: Natural Language Processing (Fall 2023) GT CS 7650: Natural Language Processing (Spring 2023) GT CS 4650: Natural Language Processing (Fall 2022) GT CS 7650: Natural Language Processing (Spring 2022) GT CS 7650: Natural Language Processing (Spring 2022) GT CS 7650: Natural Language Processing (Spring 2021) OSU CSE 5539: Social Media and Text Analytics (Spring 2020) OSU CSE 5525: Speech and Language Processing (Fall 2019) OSU CSE 5525: Speech and Language Processing (Spring 2019) OSU CSE 5525: Machine Learning and Statistical Pattern Recognition (Fall 2018) OSU CSE 5529: Social Media and Text Analytics (Spring 2018) OSU CSE 5529: Social Media and Text Analytics (Spring 2018) OSU CSE 5529: Machine Learning and Statistical Pattern Recognition (Fall 2017) OSU CSE 5529: Machine Learning and Statistical Pattern Recognition (Spring 2017) OSU CSE 5529: Machine Learning and Statistical Pattern Recognition (Spring 2017) OSU CSE 5529: Web Information Extraction (Fall 2015) OSU CSE 5539: Web Information Extraction (Fall 2015) OSU CSE 5539: Web Information Extraction (Fall 2015) OSU CSE 5539: NLP and IE for the Social Web (Fall 2014)

SERVICE Program Chair NAACL 2025

Demo Chair ACL 2023

Organizer ACL/EMNLP Workshop on Noisy User-Generated Text (WNUT 2015, 2016, 2017, 2018, 2019, 2020, 2021), Sentiment Analysis in Twitter Shared Task (SemEval 2013,2014,2015,2016), Named Entity Recognition in Twitter Shared Task (at WNUT 2015, 2016)

Senior Area Chair EMNLP 2020 (Information Extraction), NAACL 2021 (Machine Learning), EMNLP 2021 (Computational Social Science), AAAI 2022, ACL 2022 (Information Extraction), EMNLP 2022) (Information Extraction

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), ACL 2020 (Information Extraction), ACL 2021 (Information Extraction) EMNLP 2023 (Information Extraction)

Steering Committee SemEval 2016,2018,2019,2020

Proposal Reviewing Panelist for U.S. National Science Foundation, IIS, (Twice in 2017, Twice in 2018, Once in 2019, Once in 2023), Reviewer for U.S. National Science Foundation, IIS, (Once in 2020), 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)

Departmental/College Service GT College of Computing Undergraduate Curriculum Committee, 2020-2021, GT Computational Media Undergraduate Curriculum Committee, 2020-2021, GT School of Interactive Computing Faculty Hiring Committee, 2020-2021, OSU CSE Graduate Studies Committee (2016-2019), OSU CSE Curriculum Committee (2019-2020), OSU CSE Graduate Admissions Committee - Artificial Intelligence Group Representative (2014-2020), OSU CSE Prospective Ph.D. Student Visit Day Organizer, (2014-2016)

PATENTS US Patent US20110010669

"Items Selection Via Automatic Generalization"

• This covers the work from my 2008 internship at Microsoft Research, which also resulted in a best student paper award at the ACM Conference on Intelligent User Interfaces.

PUBLICATIONS UniIR: Training and Benchmarking Universal Multimodal Information Retrievers Cong Wei, Yang Chen, Haonan Chen, Hexiang Hu, Ge Zhang, Jie Fu, **Alan Ritter**, Wenhu Chen ECCV 2024

Constrained Decoding for Cross-lingual Label Projection Duong Minh Le, Yang Chen, **Alan Ritter**, Wei Xu ICLR 2024

Tensor Trust: Interpretable Prompt Injection Attacks from an Online Game Sam Toyer, Olivia Watkins, Ethan Adrian Mendes, Justin Svegliato, Luke Bailey, Tiffany Wang, Isaac Ong, Karim Elmaaroufi, Pieter Abbeel, Trevor Darrell, **Alan Ritter**, Stuart Russell ICLR 2024 (Spotlight)

Having Beer after Prayer? Measuring Cultural Bias in Large Language Models Tarek Naous, Michael J. Ryan, **Alan Ritter**, Wei Xu Proceedings of ACL 2024

Social Impact Award

Meta-Tuning LLMs to Leverage Lexical Knowledge for Generalizable Language Style Understanding Ruohao Guo, Wei Xu, **Alan Ritter** Proceedings of ACL 2024

NEO-BENCH: Evaluating Robustness of Large Language Models with Neologisms Jonathan Zheng, **Alan Ritter**, Wei Xu Proceedings of ACL 2024

Reducing Privacy Risks in Online Self-Disclosures with Language Models Yao Dou, Isadora Krsek, Tarek Naous, Anubha Kabra, Sauvik Das, **Alan Ritter**, Wei Xu Proceedings of ACL 2024

Self-Specialization: Uncovering Latent Expertise within Large Language Models Junmo Kang, Hongyin Luo, Yada Zhu, Jacob Hansen, James Glass, David Cox, **Alan Ritter**, Rogerio Feris, Leonid Karlinsky Findings of ACL 2024

Can Pre-trained Vision and Language Models Answer Visual Information-Seeking Questions? Yang Chen, Hexiang Hu, Yi Luan, Haitian Sun, Soravit Changpinyo, **Alan Ritter**, Ming-Wei Chang EMNLP 2023

Distill or Annotate? Cost-Efficient Fine-Tuning of Compact Models Junmo Kang, Wei Xu and **Alan Ritter** ACL 2023

Duong Minh Le, Ruohao Guo, Wei Xu and **Alan Ritter** Improved Instruction Ordering in Recipe-Grounded Conversation ACL 2023

Ethan Mendes, Yang Chen, Wei Xu, **Alan Ritter** "Human-in-the-loop Evaluation for Early Misinformation Detection: A Case Study of COVID-19 Treatments" ACL 2023

Shuheng Liu, Alan Ritter "Do CoNLL-2003 Named Entity Taggers Still Work Well in 2023?" ACL 2023 Reproduction Award

Yang Chen, Chao Jiang, **Alan Ritter**, Wei Xu "Frustratingly Easy Label Projection for Cross-lingual Transfer" Findings of ACL 2023

Nghia Le, Fan Bai, **Alan Ritter** "Few-Shot Anaphora Resolution in Scientific Protocols via Mixtures of In-Context Experts" EMNLP Findings 2022

Jonathan Qiaoyi Zheng, Ashutosh Baheti, Tarek Naous, Wei Xu, **Alan Ritter** "Stanceosaurus: Classifying Stance Towards Multicultural Misinformation" To Appear in Proceedings of EMNLP 2022

Fan Bai, Alan Ritter, Peter Madrid, Dayne Freitag and John Niekrasz

"SynKB: Semantic Search for Synthetic Procedures" To Appear in Proceedings of EMNLP 2022 (Demo Track)

Shi Zong, Ashutosh Baheti, Wei Xu, **Alan Ritter** "Extracting a Knowledge Base of COVID-19 Events from Social Media" To Appear in Proceedgins of Coling 2022

Fan Bai, **Alan Ritter** and Wei Xu "Pre-train or Annotate? Domain Adaptation with a Constrained Budget" Proceedings of EMNLP 2021

Ashutosh Baheti, Maarten Sap, Alan Ritter, Mark Riedl "Just Say No: Analyzing the Stance of Neural Dialogue Generation in Offensive Contexts" Proceedings of EMNLP 2021 [Covered by TNW]

Yang Chen and **Alan Ritter** "Model Selection for Cross-Lingual Transfer" Proceedings of EMNLP 2021

Ronen Tamari, Fan Bai, **Alan Ritter** and Gabriel Stanovsky "Process-Level Representation of Scientific Protocols with Interactive Annotation" Proceedings of EACL 2021

Wuwei Lan, Yang Chen, Wei Xu, **Alan Ritter** "An Empirical Study of Pre-trained Transformers for Arabic Information Extraction" Proceedings of EMNLP 2020 (short paper)

Shi Zong, **Alan Ritter** and Eduard Hovy "Measuring Forecasting Skill from Text" Proceedings of ACL 2020

Ashutosh Baheti, **Alan Ritter** and Kevin Small "Fluent Response Generation for Conversational Question Answering" Proceedings of ACL 2020

Jeniya Tabassum, Mounica Maddela, Wei Xu and **Alan Ritter** "Code and Named Entity Recognition in StackOverflow" Proceedings of ACL 2020

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

Shi Zong, Alan Ritter, Graham Mueller and Evan Wright "Analyzing the Perceived Severity of Cybersecurity Threats Reported on Social Media" 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, Sébastien 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