

# Alan Ritter

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Assistant Professor  
Computer Science and Engineering  
The Ohio State University

## CONTACT INFORMATION

*E-mail:* ritter.1492@osu.edu  
*Office:* 595 Drees Labs  
*Phone:* (360) 820-1090  
*WWW:* <http://aritter.github.io/>

## RESEARCH INTERESTS

Natural Language Processing, Information Extraction, Machine Learning, Social Media Analysis

## EDUCATION

**University of Washington**, Seattle, WA USA

Ph.D. in Computer Science & Engineering

- Thesis Topic: Information Extraction in Social Media
- Fall 2007 - Summer 2013

**Western Washington University**, Bellingham, WA USA

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

- Overall GPA: 4.00

## PROFESSIONAL EXPERIENCE

**The Ohio State University**, Columbus OH USA

*Assistant Professor - Computer Science and Engineering*

**August 2014 - ...**

**Microsoft Research**, Redmond WA USA

*Consultant - Natural Language Processing Group*

**August 2014 - ...**

**Carnegie Mellon University**, Pittsburgh PA USA

*Postdoctoral Fellow - Machine Learning Department*

Supervisor: Tom Mitchell

**August 2013 - August 2014**

**Microsoft Research**, Redmond WA USA

*Intern - Natural Language Processing Group*

**June 2009 - September 2009**

Crawled Twitter to gather a corpus of conversations. Designed a generative model of dialogue, and conducted experiments to demonstrate the feasibility of unsupervised modeling of dialogue acts in new media. Investigated data-driven response generation in Social media. This work resulted in publication at [NAACL 2010] and [EMNLP 2011a].

Supervisors: Colin Cherry, Bill Dolan

**Microsoft Research**, Redmond WA USA

*Intern - Knowledge Tools Group (Machine Learning Department)*

**June 2008 - August 2008**

Investigated new methods for Smart Selection in the file browser domain. Proposed the idea of *Learning to Generalize* in Interactive Machine Learning. Implemented a prototype *Smart File Browser*, and conducted User Studies. This work resulted in an award paper at [IUI 2009].

Supervisor: Sumit Basu

**University of Washington, Seattle WA USA**

*Software Engineer*

**April 2007 - September 2007**

Implemented updates and maintained TEXTRUNNER, an Open IE based search engine. Developed a web-scale hypnym extractor.

Supervisors: Stephen Soderland, Oren Etzioni

**Microsoft, Redmond WA USA**

*Software Design Engineer*

**January 2007 - March 2007**

Windows Media DRM group.

**Naval Research Laboratory, Marine Meteorology Division, Monterey, CA USA**

*Intern - Data Assimilation Group*

**June 2006 - August 2006**

Used TAU (Tuning and Analysis Utilities) to instrument, profile, analyze, and improve scalability of research and operational NRL Data Assimilation Fortran/MPI code. Taught a class on automatic instrumentation of parallel programs for NRL scientists. Presented a Seminar on scalability enhancements to NAVDAS.

Supervisor: William F. Campbell

**The NetBSD Project**

*Google "Summer of Code" Grant*

**June 2005 - August 2005**

Ported FreeBSD's NDIS Compatibility Layer to NetBSD.

[http://cvsweb.netbsd.org/bsdweb.cgi/src/sys/dev/if\\_ndis/?only\\_with\\_tag=MAIN](http://cvsweb.netbsd.org/bsdweb.cgi/src/sys/dev/if_ndis/?only_with_tag=MAIN)

Mentor: Philip A. Nelson

**AWARDS**

Facebook Fellowship Finalist (2012)

Best Student Paper Award for *Learning to Generalize for Complex Selection Tasks* at IUI (2009)

NDSEG Fellowship (2008)

**GRANTS**

**CRII: III: Learning to Extract Events from Knowledge Base Revisions**, U.S. NSF

9/1/2015-9/1/2017

Amount: \$151,299

PI: Alan Ritter

**TEACHING  
EXPERIENCE**

**The Ohio State University, Columbus OH USA**

*Instructor - Web Information Extraction*

**September 2014 - December 2014**

[http://aritter.github.io/courses/5539\\_fall15.html](http://aritter.github.io/courses/5539_fall15.html)

**The Ohio State University, Columbus OH USA**

*Instructor - 5522: Survey of AI II: Advanced Techniques*

**January 2015 - May 2015**

<http://aritter.github.io/courses/5522.html>

**The Ohio State University, Columbus OH USA**

*Instructor - IE and NLP for the Social Web*

**September 2014 - December 2014**

<http://aritter.github.io/courses/5539.html>

**THESIS  
COMMITTEES**

*Young-Bum Kim*

PhD, Feb 2015

Natural Language Technologies for Low-Resource Languages (Advisor: Benjamin Snyder)

University of Wisconsin

## PATENTS

US Patent Application US20110010669  
“Items Selection Via Automatic Generalization”

## INVITED TALKS

“Weakly Supervised Information Extraction for the Social Web”  
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

“Information Extraction from Noisy Text”  
Clunch, University of Pennsylvania, September 2014

“Extracting Knowledge from Informal Text”  
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

“Modeling Conversations in Social Media”  
Microsoft Research, September 2011

“Extracting a Calendar from Twitter”  
Pacific Northwest National Laboratory, January 2013  
Proteus Group, 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

“Finding Contradictions in Text Using Functions”  
Boeing Research  
February 2008

## PRESS

“Forget today’s news: Zapaday will break future news”  
<http://thenextweb.com/media/2012/05/01/forget-todays-news-zapaday-will-break-future-news/>  
<http://bit.ly/1Ndfnic>  
The Next Web  
May 2012

“Hello, computer!” UW prof and students search outside the box”  
<http://www.geekwire.com/2011/computer-uw-prof-students-search-box/>  
GeekWire  
November 2011

ACADEMIC SERVICE Organizer

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

U.S. Government Service

*Independent Reviewer of PNNL’s Social Media project for the Department of Energy (March 2015)*

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)*

Steering Committee

*SemEval 2016*

Journal Reviewing

*ACM Computing Surveys (2014), TACL (2013,2014,2015), Computational Linguistics (2013), JAIR (2012), TOIS (2012), TKDE (2014), JMLR MLOSS (2013), Journal of Natural Language Engineering (2014)*

Program Committee

*EMNLP (2010,2011,2012,2013,2014,2015), ACL (2012,2013,2015), NAACL-HLT (2012,2013), CoNLL (2013,2014,2015), AAAI (2012,2015), EACL (2012,2014), Coling (2014), ICWSM (2012), LREC (2012), IJCAI (2011), \*SEM (2013), WWW (2014,2015,2016), CIKM (2014)*

JOURNAL PAPERS

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

CONFERENCE PAPERS

Xinlei Chen, Alan Ritter, Abhinav Gupta and Tom Mitchell  
“Unsupervised Discovery of Semantic and Visual Senses”  
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

“Never Ending Learning”  
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, Mal-

colm Greaves and Joel Welling  
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

Justin Betteridge, Alan Ritter and Tom Mitchell  
“Assuming Facts Are Expressed More Than Once”  
Proceedings of FLAIRS 2014

Leon Derczynski, Alan Ritter, Sam Clark and Kalina Bontcheva  
“Twitter Part-of-Speech Tagging for All: Overcoming Sparse and Noisy Data”  
Proceedings of RANLP 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

- WORKSHOP PAPERS Ting-Hao K. Huang, Walter S. Lasecki, Alan L. Ritter, Jeffrey P. Bigham  
“Combining Non-Expert and Expert Crowd Work to Convert Web APIs to Dialog Systems” Work-in-Progress paper in the Proceeding of Conference on Human Computation & Crowdsourcing (HCOMP 2014)
- Walter S. Lasecki, Alan, Ritter and Jeffrey P. Bigham  
“Powering Spoken Language Interactions With the Crowd.”  
Proceedings of the CHI Workshop on Designing Speech and Language Interactions (DSLI 2014), 2014.
- Wei Xu, Alan Ritter, Ralph Grishman  
“Gathering and Generating Paraphrases from Twitter with Application to Normalization”  
ACL 2013 Workshop on Building and Using Comparable Corpora
- Wei Xu, Ralph Grishman, Adam Meyers, Alan Ritter  
“A Preliminary Study of Tweet Summarization using Information Extraction”  
Proceedings of NAACL 2013 Workshop on Language Analysis in Social Media
- Sina Jafarpour and Chris Burges, Alan Ritter  
“Filter, Rank, and Transfer the Knowledge: Learning to Chat”  
NIPS Workshop on Advances in Ranking, Vancouver, Canada, 2009
- Alan Ritter, Stephen Soderland and Oren Etzioni  
“What is this Anyway? Automatic Hypernym Discovery”  
Proceedings of the AAAI 2009 Spring Symposium on Learning by Reading and Learning to Read