

# 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 in Social Media, Information Extraction, Machine Learning

## 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

## AWARDS

Facebook Fellowship Finalist (2012)

EMNLP Best Reviewer Awards (2011,2012)

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

NDSEG Fellowship (2008)

WWU Outstanding Graduating Senior in Computer Science (2006)

## PROFESSIONAL EXPERIENCE

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

*Assistant Professor - Computer Science and Engineering*

**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

*Consultant - Natural Language Processing Group*

**July 2013 - August 2013**

**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 hypernym 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

TEACHING  
EXPERIENCE

**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>

**University of Washington, Seattle WA USA**

*Teaching Assistant - Machine Learning*      **Jan 2009 - March 2009, Jan 2011 - March 2011**  
<http://www.cs.washington.edu/education/courses/cse446/>  
Helped to design and grade homework assignments, answered student questions one-on-one, prepared and presented an hour long lecture on Neural Networks.  
Supervisor: Oren Etzioni

PATENTS

US Patent Application US20110010669  
"Items Selection Via Automatic Generalization"

INVITED TALKS

"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/>

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

#### TUTORIALS

“Latent Variable Models of Lexical Semantics”

Yahoo! Machine Learning Seminar (@ UW)

January 2012

#### SERVICE

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)*

Steering Committee  
*SemEval 2016*

Co-Organizer  
*ACL Workshop on NLP in Noisy Text (2015), Sentiment Analysis in Twitter Shared Task (SemEval 2013,2014,2015)*

Session Chair  
*EMNLP 2012 (Social Media), NAACL 2013 (Social Media), ACL 2014 (Social Media), AAAI 2015 (Natural Language Processing)*

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

Workshop Reviewing  
*"@NLP can u tag #user-generated\_content ?!" (LREC 2012), Workshop on Language in Social Media (2011, 2012, 2013, 2014), Workshop on Analyzing Microtext (2011,2013), Workshop on Relational Models of Semantics (2011), Workshop on Information Extraction and Knowledge Acquisition (2011), ACL Student Research Workshop (2012), AKBC-WEKEX (2012,2013), CIKM workshop on Politics, Elections and Data (2012,2013), TextGraphs 2013, Workshop on Latent Attribute Prediction in Social Media (ACL 2014)*

## PUBLICATIONS

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

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

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, 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, 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

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

## REFERENCES

Bill Dolan  
Research Manager  
Natural Language Processing Group  
Microsoft Research  
☎ 425 706 3709  
✉ billdol@microsoft.com

Tom Mitchell  
E. Fredkin University Professor  
Machine Learning Department  
School of Computer Science  
Carnegie Mellon University  
☎ 412 268 2611  
✉ tom.mitchell@cmu.edu

Oren Etzioni  
CEO  
Allen Institute for Artificial Intelligence  
☎ 206 685 3035  
✉ OrenE@allenai.org

Luke Zettlemoyer  
Assistant Professor  
Computer Science and Engineering  
University of Washington  
☎ 206 685 1227  
✉ lsz@cs.washington.edu