## Svitlana Volkova

Mentor: Bill Dolan

Worked on modeling human-computer interactions in an Xbox domain (presented at ACL'12); managed crowdsourcing of grounded multilingual subjective descriptions of the Xbox avatar images (presented at NAACL'13).

05/2011 - 08/2011

TECHNICAL SKILLS AND LANGUAGES **Expert knowledge:** Machine Learning, Natural Language Processing, Text Analytics, Social Networks, Social Media Analytics, Data Mining, Probability and Statistics, Information Retrieval/Extraction, Artificial Intelligence, Graphs and Optimization

**Programming**: Python, Java, Bash, R, Matlab, SQL, MongoDB and C#.

Languages: English (fluent), Russian/Ukrainian (native), French/German (beginner).

## **PUBLICATIONS**

Papers, presentations, posters, demos, code and data:

http://www.cs.jhu.edu/~svitlana/

*Online Bayesian Models for Personal Analytics in Social Media*. Svitlana Volkova, Benjamin Van Durme. AAAI 2015.

Inferring Latent User Properties from Texts Published in Social Media (Demo). Svitlana Volkova and Yoram Bachrach. AAAI 2015.

Improving Gender Prediction of Social Media Users via Weighted Annotator Rationales. Svitlana Volkova and David Yarowsky. NIPS Workshop on Personalization: Methods and Applications 2014.

*Inferring User Political Preferences from Streaming Communications.* Svitlana Volkova, Glen Coppersmith, and Benjamin Van Durme. ACL 2014.

Exploring Demographic Language Variations to Improve Multilingual Sentiment Analysis in Social Media. Svitlana Volkova, Theresa Wilson, and David Yarowsky. EMNLP 2013.

*Lightly Supervised Learning of Procedural Dialog Systems*. Svitlana Volkova, Pallavi Choudhury, Chris Quirk. Bill Dolan and Luke Zettlemoyer. ACL 2013.

Exploring Sentiment in Social Media: Bootstrapping Subjectivity Clues from Multilingual Twitter Streams. Svitlana Volkova, Theresa Wilson, and David Yarowsky. ACL 2013.

Learning to Relate Literal and Sentimental Descriptions of Visual Properties. Mark Yatskar, Svitlana Volkova. Asli Celikyilmaz, Bill Dolan and Luke Zettlemoyer. NAACL-HLT 2013.

CLex: A Lexicon for Exploring Color, Concept and Emotion Associations in Language. Svitlana Volkova, Bill Dolan, Theresa Wilson. EACL 2012.

Boosting Biomedical Entity Extraction by using Syntactic Patterns for Semantic Relation Discovery. Svitlana Volkova et al. IEEE/ACM WI & IAT 2010.

Computational Knowledge and Information Management in Veterinary Epidemiology. Svitlana Volkova, Doina Caragea et al. IEEE ISIC 2010.

Animal Disease Event Recognition and Classification. Svitlana Volkova et al. Workshop on Web Science and Information Exchange in Medical Web, WWW 2010.

10 more papers published by the Ukrainian National Academy of Science and 15 short papers in conference proceedings:

http://svolkova.weebly.com/publications.html

## **PATENTS**

Crowdsourced, Grounded Language for Intent Modeling in Conversational Interfaces.

C. Brockett, P. Choudhury, B. Dolan, Y. C. Ju, P. Pantel, N. Mallory, and S. Volkova.

AWARDS AND	2010 – 2011 Google Anita Borg Memorial Scholarship Award
DIPLOMAS	2008 – 2010 Fulbright Graduate Student Scholarship Award
PROFESSIONAL SERVICE	Co-organizer of the Women in Machine Learning Workshop (WiML) 2015.  Co-chair of a Joint Workshop on Social Dynamics and Latent Attribute Prediction in Social Media at ACL 2014.  Co-chair of the ACL Student Research Workshop 2014.  Reviewing for ACL, EACL, NAACL, EMNLP, AAAI and IEEE.
RESEARCH AND TEACHING EXPERIENCE	Johns Hopkins University Baltimore, MD USA
	Research Assistant, Center for Language and Speech Processing 01/2011 – present
	Developing text-driven models for socio-linguistic content analysis in streaming social media. Past projects: Built batch models for latent demographic attribute prediction in social media for English and Spanish. Built models for sentiment analysis for low-resourced languages and explored gender language differences to improve sentiment prediction for English, Spanish, and Russian.  Teaching Assistant, Computer Science Department  09/2010 – 12/2010
	Machine Learning, Prof. Mark Dredze
	Kansas State University, Manhattan, KS USA
	Research Assistant, Knowledge Discovery in Databases Laboratory 01/09 – 05/10  Project: Developed a framework for animal disease event recognition and extraction from unstructured web data including news, emails, and blogs.
	Data Sciences Summer Institute, University of Illinois Urbana-Champaign, IL
	<i>Visiting Student</i> 05/2009 – 07/2009
	Petro Mohyla Black Sea State University, Mykolayiv Ukraine
	Research Assistant, Medical Equipment and Systems Department 03/2006 – 07/2008  Studied methods to increase reliability and quality of medical expert systems.  Assistant, Information Systems and Computer Science Department 07/2004 – 03/2006  Taught graduate and undergraduate courses: algorithms and programming languages, operation analysis, web-design, and physics.
INVITED TALKS	05/31/2015 NAACL Tutorial on Social Media Predictive Analytics, Denver CO
TUTORIALS	04/15/2015 Microsoft Research, Natural Language Processing Group, Redmond WA
	04/13/2015 Pacific Northwest National Laboratory, Richland WA
	03/17/2015 Microsoft Research, Machine Learning Group, Cambridge UK
	03/16/2015 Psychometrics Center, University of Cambridge, Cambridge UK
	02/18/2015 CLIP Seminar and Guest Lecture, University of Maryland
	01/30/2015 People Pattern, Austin TX
	11/13/2014 Penn Positive Psychology Center, World Well-Being Project, Philadelphia
	11/12/2014 Penn Computational Linguistics Group, Philadelphia
	11/07/2014 Amazon Fall 2014 Graduate Research Symposium, Seattle

	09/12/2014 University of Cambridge, Computer Laboratory, Cambridge UK
MEMBERSHIPS	Fulbright Alumni Association, Association for Computational Linguistics (ACL), Women in Machine Learning (WiML), IEEE Student and Women in Engineering, ACM Student and Women in Computing.