

## CEM AKKAYA

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### RESEARCH INTEREST

My research interests consist of **Natural Language Processing** and **Machine Learning**. Primarily, I am interested in the applications of Word Sense Disambiguation to Subjectivity/Sentiment Analysis. Machine Learning is an integral part of my research. I am particularly interested in active learning and semi-supervised learning methods.

### EDUCATION

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| <b>University of Pittsburgh, Pittsburgh, PA</b><br>Ph.D. in Intelligent Systems Program<br>Advisor: Dr. Janyce Wiebe                                  | 2006-present |
| <b>Vienna University of Technology (TU Wien), Vienna, Austria</b><br>B.S. and M.S. in Informatics<br>Advisor: Dr. Silvia Miksch, Dr. Katharina Kaiser | 2000–2005    |

### RESEARCH EXPERIENCES

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| <b>Natural Language Processing Group, University of Pittsburgh</b><br>Working with Janyce Wiebe on Subjectivity and Sentiment Analysis:<br>Application of Word Sense Disambiguation to Subjectivity and Sentiment Analysis<br>Design of an expressive lexicon representation | 2007-present |
| <b>Information Engineering Group, TU Wien</b><br>Worked with Katharina Kaiser and Silvia Miksch on Information Extraction from<br>clinical practice guidelines   | 2004-2005    |

### PUBLICATIONS

- Cem Akkaya, Alexander Conrad, Janyce Wiebe, and Rada Mihalcea (2010). *Amazon Mechanical Turk for Subjectivity Word Sense Disambiguation*. NAACL-HLT 2010 Workshop on Creating Speech and Language Data With Amazon's Mechanical Turk
- Cem Akkaya, Janyce Wiebe and Rada Mihalcea (2009). *Subjectivity Word Sense Disambiguation*. Conference on Empirical Methods in Natural Language Processing (EMNLP 2009).
- Yaw Gyamfi, Janyce Wiebe, Rada Mihalcea, and Cem Akkaya (2009). *Integrating Knowledge for Subjectivity Sense Labeling*. Joint Conference of the North American Chapter of the Association for Computational Linguistics and the Human Language Technologies Conference (HLT-NAACL 2009).
- Katharina Kaiser, Cem Akkaya, Silvia Miksch (2007). *How can Information Extraction ease formalizing treatment processes in clinical practice guidelines? A method and its evaluation*. Artificial Intelligence in Medicine, 39(2):151-163, 2007.

Katharina Kaiser, Cem Akkaya, Silvia Miksch (2005). *Gaining Process Information from Clinical Practice Guidelines Using Information Extraction*. 10th Conference on Artificial Intelligence in Medicine (AIME 2005).

## INDUSTRIAL EMPLOYMENTS

<b>Software Developer, Intertech</b>	2005-2006
Developer for Intertech Financial Advanced Computing Environment (inter-F.A.C.E.), a banking solution for DenizBank. I worked on all three tiers of the project doing Javascript and HTML programming on the presentation tier, C# programming on the application tier and SQL programming on the database tier.	
<b>Summer Intern, Yahoo! Inc.</b>	2010
I worked under the supervision of Dr. Yookyung Kim in the Infinite Browse Team. We applied Machine Learning techniques to improve parts of the existing logic.	

## ACADEMIC EMPLOYMENTS

<b>Graduate Student Researcher</b>	2007-2010
Intelligent Systems Program, University of Pittsburgh	
<b>Teaching Assistant for CS7: Introduction to Programming</b>	2008
Department of Computer Science, University of Pittsburgh	

## HONORS & AWARDS

Arts and Sciences Graduate Fellowship, University of Pittsburgh	2006-2007
Andrew Mellon Pre-Doctoral Fellowship	2010-2011

## SERVICES AND ORGANIZATIONS

Reviewer for NAACL 2010	2010
Member of the Natural Language Processing Group, University of Pittsburgh	2007-present
Webmaster, Intelligent Systems Program, University of Pittsburgh	2008-2009
Member of the Turkish & American Student Association at University of Pittsburgh	2006-present

## LANGUAGE PROFICIENCY

English: Fluent

German: Fluent

Turkish: Native