

Pradeep Dasigi

GHC 5503 • 5000 Forbes Avenue • Pittsburgh, PA 15213
917-971-9368 • pdasigi@cs.cmu.edu

Research and Professional Experience

- **Graduate Research Assistant**

Language Technologies Institute
Carnegie Mellon University

Pittsburgh, PA
August 2013 – Present

Used Deep Learning methods to model implicit knowledge in text and applied them to

- * anomaly detection in newswire data
- * commonsense extraction
- * extracting latent structure in experiment descriptions

- **Research Intern**

Microsoft Research

Redmond, WA
May 2014 – August 2014

Developed end-to-end single turn conversational systems based on Interactive Labeling, which led to Language Understanding Intelligent Service (LUIS), a part of Microsoft's Project Oxford.

- **Software Engineer**

Safaba Translation Solutions

Pittsburgh, PA
August 2012 – August 2013

Involved in the research, development and deployment of phrase based Machine Translation systems and engineering the back-end architecture

- **Research Intern**

Knowledge and Decision Systems
Siemens Corporate Research

Princeton, NJ
April 2012 – July 2012

Query Expansion for Patent Invalidation: Developed a module that performed Query Expansion using Distributional Similarity between words to produce lexical substitutes.

- **Graduate Research Assistant**

Center for Computational Learning Systems
Columbia University

New York, NY
September 2011 – March 2012

Used clustering algorithms on vector space models towards a wide range of applications: Spelling Correction, Word Sense Induction for measuring semantic coherence, Community Mining in Social Networks

- **Research Assistant**

Department of Electrical Engineering and Computer Science
University of Michigan

Ann Arbor, MI
July 2011 – August 2011

Community Mining in Social Networks: Developed a system that used presence of sentiment features like sarcasm and informal speech to infer emergence of subgroups in threaded discussions

- **Research Assistant**

Language Technologies Research Center
International Institute of Information Technology

Hyderabad, India
2009 – 2010

Machine Transliteration and Cross Language Information Retrieval: Applied approximate string matching based Transliteration techniques to CLIR across Indian languages

Publications

- *Rapidly scaling dialog systems with interactive learning*
Jason D. Williams, Nobal B. Niraula, Pradeep Dasigi, Aparna Lakshmiratan, Carlos Garcia Jurado Suarez, Mouni Reddy, and Geoff Zweig.
International Workshop on Spoken Dialog Systems. 2015
 - *Modeling Newswire Events using Neural Networks for Anomaly Detection*
Pradeep Dasigi and Eduard Hovy.
Proceedings of COLING 2014, the 25th International Conference on Computational Linguistics. 2014
 - *Reranking with Linguistic and Semantic Features for Arabic Character Recognition*
Nadi Tomeh, Nizar Habash, Ryan Roth, Noura Farra, Pradeep Dasigi and Mona Diab.
Proceedings of the 51st Annual Meeting of ACL. 2013
 - *Genre Independent Subgroup Detection in Online Discussion Threads: A Pilot Study of Implicit Attitude using Latent Textual Semantics*
Pradeep Dasigi, Weiwei Guo, Mona Diab.
Proceedings of the 50th Annual Meeting of ACL. 2012
 - *Subgroup detection in ideological discussions*
Amjad Abu-Jbara, Pradeep Dasigi, Mona Diab, Dragomir Radev.
Proceedings of the 50th Annual Meeting of ACL. 2012
 - *CODACT: Towards Identifying Orthographic Variants in Dialectal Arabic*
Pradeep Dasigi, Mona Diab.
The 5th International Joint Conference on Natural Language Processing. 2011
 - *Named Entity Transliteration Using A Statistical Machine Translation Framework*
Pradeep Dasigi, Mona Diab.
Named Entity Workshop (NEWS) 2011, The 5th International Joint Conference on Natural Language Processing. 2011
 - *Experiments in CLIR Using Fuzzy String Search Based on Surface Similarity*
Sethuramalingam S, Anil Kumar Singh, Pradeep Dasigi and Vasudeva Varma.
Proceedings of the 32nd Annual SIGIR Conference. 2009
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Patents

- Co-inventor on a patent application submitted on methods for efficiently building language understanding models for dialog systems, based on work at Microsoft Research.
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Education

- **Carnegie Mellon University**
Language Technologies Institute
Ph.D., Language and Information Technologies
Advisor: Prof. Eduard Hovy
Pittsburgh, PA
Fall 2013 – Present
- **Columbia University**
Fu Foundation School of Engineering and Applied Science
M.S., Computer Science
Advisor: Dr. Mona Diab
New York, NY
Fall 2010 – Fall 2011
- **Vellore Institute of Technology**
B.Tech, Computer Science and Engineering
Tamil Nadu, India
2005 – 2009