

# Pradeep Dasigi

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## Education

- **Carnegie Mellon University** **Pittsburgh, PA**  
Language Technologies Institute *Fall 2013 – Present*  
Ph.D., Language and Information Technologies  
Thesis: Knowledge-Aware Natural Language Understanding  
Topics: Incorporating knowledge in neural networks, neural semantic parsing  
Advisor: Prof. Eduard Hovy
  - **Columbia University** **New York, NY**  
Fu Foundation School of Engineering and Applied Science *Fall 2010 – Fall 2011*  
M.S., Computer Science  
Topics: Lexical Semantics, Computational Sociolinguistics  
Advisor: Dr. Mona Diab
  - **Vellore Institute of Technology** **Tamil Nadu, India**  
B.Tech, Computer Science and Engineering *2005 – 2009*
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## Research and Professional Experience

- **Allen Institute for Artificial Intelligence** *Seattle, WA*  
*Research Intern* *January 2018 – Present*  
Working on weakly supervised Neural Semantic Parsing
- **Allen Institute for Artificial Intelligence** *Seattle, WA*  
*Research Intern* *May 2016 – August 2016*  
Built end-to-end deep learning systems for science question answering
- **Microsoft Research** *Redmond, WA*  
*Research Intern* *May 2014 – August 2014*  
Built a system for quickly training single-turn conversational systems using interactive labeling, which led to Language Understanding Intelligent Service (LUIS), a part of Microsoft's Project Oxford
- **Safaba Translation Solutions** *Pittsburgh, PA*  
*Software Engineer* *August 2012 – August 2013*  
Developed phrase based Machine Translation systems and automated their deployment
- **Siemens Corporate Research** *Princeton, NJ*  
*Knowledge and Decision Systems* *April 2012 – July 2012*  
*Research Intern*  
Developed a query expansion system for patent invalidation
- **International Institute of Information Technology** *Hyderabad, India*  
*Language Technologies Research Center* *2009 – 2010*  
*Research Assistant*  
Cross Language Information Retrieval across Indian languages

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## Teaching Experience

- Teaching Assistant for 10-601: Introduction to Machine Learning, **Carnegie Mellon University**, Fall 2016
  - Designed assignments and exams
  - Held recitations for 100+ students
- Teaching Assistant for 11-727: Computational Semantics, **Carnegie Mellon University**, Spring 2015
  - Gave a lecture on Representation Learning for Lexical Semantics

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## Awards

- PhD Fellowship from Allen Institute for Artificial Intelligence for academic years 2016-2018

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## Peer Reviewed Publications

- *Neural Semantic Parsing with Type Constraints for Semi-Structured Tables*  
Jayant Krishnamurthy, Pradeep Dasigi, and Matt Gardner.  
*Proceedings of the 2017 Conference on Empirical Methods in Natural Language Processing*. 2017
- *Ontology-Aware Token Embeddings for Preposition Phrase Attachment*  
Pradeep Dasigi, Waleed Ammar, Chris Dyer, and Eduard Hovy.  
*Proceedings of 55th Annual Meeting of ACL*. 2017
- *Rapidly scaling dialog systems with interactive learning*  
Jason D. Williams\*, Nopal B. Niraula\*, Pradeep Dasigi\*, Aparna Lakshmiratan, Carlos Garcia Jurado Suarez, Mouni Reddy, and Geoff Zweig. (\* denotes equal contribution)  
*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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## Book Chapter

- *Leveraging Selectional Preferences for Anomaly Detection in Newswire Events*  
Pradeep Dasigi, Eduard Hovy  
*Applied Cloud Deep Semantic Recognition*. 2018
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## Other Publications

- *AllenNLP: A Deep Semantic Natural Language Processing Platform*  
Matt Gardner, Joel Grus, Mark Neumann, Oyvind Tafjord, Pradeep Dasigi, Nelson Liu, Matthew Peters, Michael Schmitz, Luke Zettlemoyer  
*White Paper*. 2017
  - *Experiment Segmentation in Scientific Discourse as Clause-level Structured Prediction using Recurrent Neural Networks*  
Pradeep Dasigi, Gully A.P.C. Burns, Eduard Hovy, and Anita de Waard  
*arXiv preprint*. 2017
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## Patents

- *Generation of Language Understanding Systems and Methods*  
US Patent Application US20160196820A1  
Jason D. Williams, Nabal B. Niraula, Pradeep Dasigi, Aparna Lakshmiratan, Carlos Garcia Jurado Suarez, Mouni Reddy, and Geoff Zweig
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## Academic Service

- Will co-teach a tutorial on Neural Semantic Parsing at ACL 2018
- Reviewer for ACL, EMNLP, NAACL and AAAI conferences and IEEE Transactions on Audio, Speech and Language Processing
- Served on the program committee for Mid-Atlantic Student Colloquium on Speech, Language and Learning 2017