

- Education**
- The University of Texas at Austin**
Ph.D. Computer Science Fall 2011 - Summer 2016
· Advisors: Raymond J. Mooney and Katrin Erk
· Thesis: Natural Language Semantics Using Probabilistic Logic
- M.S. Computer Science Fall 2011 - Fall 2014
· GPA: 3.52/4.0
- Alexandria University, Egypt**
M.S. Computer and Systems Engineering Fall 2009 - Spring 2011
· Advisor: Moustafa Youssef
· Thesis: A New Routing Framework for Multipath Cognitive Networks
- B.S. Computer and Systems Engineering Fall 2003 - Spring 2008
· Ranked first among the Engineering graduates (around 2000 students)
- Research Interests** Computational Semantics, Natural Language Processing and Machine Learning
- Publications**
- I. Beltagy and Chris Quirk
Improved Semantic Parsers For If-Then Statements ACL 2016
- I. Beltagy Stephen Roller, Pengxiang Cheng, Katrin Erk, and Raymond J. Mooney
Representing Meaning with a Combination of Logical and Distributional Models
· CompLing Journal 2016
- I. Beltagy and Katrin Erk IWCS 2015
On the Proper Treatment of Quantifiers in Probabilistic Logic Semantics
- I. Beltagy and Raymond J. Mooney StarAI 2014
Efficient Markov Logic Inference for Natural Language Semantics
- I. Beltagy, Katrin Erk, and Raymond J. Mooney ACL 2014
Probabilistic Soft Logic for Semantic Textual Similarity
- I. Beltagy, Katrin Erk, and Raymond J. Mooney ACL Workshop on Semantic Parsing 2014
Semantic Parsing using Distributional Semantics and Probabilistic Logic
- I. Beltagy, Stephen Roller, Gemma Boleda, Katrin Erk, and Raymond J. Mooney SemEval 2014
UTexas: Natural Language Semantics using Distributional Semantics and Probabilistic Logic
- I. Beltagy, Cuong Chau, Gemma Boleda, Dan Garrette, Katrin Erk and Raymond Mooney *SEM 2013
Montague Meets Markov: Deep Semantics with Probabilistic Logical Form
- I. Beltagy, Moustafa Youssef and Mohamed El-Derini WCNC 2011
A New Routing Metric and Protocol for Multipath Routing in Cognitive Networks
- Amr Kabardy, I. Beltagy and Amr Magdy Bachelor graduation project book 2010
High Performance Electronic Lecture Service via WWW
Publisher: LAP LAMBERT Academic Publishing
- Research in Progress**
- I. Beltagy and Waleed Ammar
Enforcing Networks Diversity Using Adversarial Training <https://github.com/ibeltagy/dat>

Selected Research, Teaching and Work Experiences	<p>Quora Mountain View, CA Worked on multiple NLP projects including summarization, multilingual embeddings, sentence embeddings, text generation, transfer learning and text classification.</p> <p>Microsoft Research Mentor: Chris Quirk Used Neural Networks for a Semantic Parsing task.</p> <p>The University of Texas at Austin Advisors: Raymond J. Mooney and Katrin Erk Performing various natural language semantics tasks (Textual Entailment, Textual Similarity and Question Answering) using probabilistic logic and distributional models.</p> <p>The University of Texas at Austin Taught Computer Architecture and Computer Organization.</p> <p>VMware Cambridge, MA Worked with the High Availability team addressing failures of virtual machines.</p> <p>Computer and Systems Engineering, Alexandria University Taught Programming Concepts and Data Structures.</p> <p>Ejada Alexandria, Egypt Web development using ASP.Net and Oracle database.</p> <p>Institute for Data Communication, Siegen University Siegen, Germany Internship through IAESTE's student exchange program.</p>	<p>Machine Learning Engineer Fall 2016 - Present</p> <p>Research Intern Summer 2015</p> <p>Graduate Research Assistant Spring 2013 - Present</p> <p>Teaching Assistant Fall 2011 - Fall 2012</p> <p>Software Intern Summer 2012</p> <p>Teaching Assistant Spring 2010 - Spring 2011</p> <p>Software Developer August 2008 - July 2011</p> <p>Undergraduate Intern Summer 2007</p>
Languages and Tools	Python, Scala, Java, Keras, C++, C, C#, Matlab, PL/SQL, JavaScript, ASP.NET, VHDL	
Academic Services	<ul style="list-style-type: none"> · Conference reviewing: *SEM-2015, EMNLP-2015, ACL-2016, *SEM-2016, EMNLP-2016, EACL-2017, ACL-2017, EMNLP 2017 · Area co-chair for Distributional semantics, *SEM-2017 	
Honors and Awards	<p>Graduate awards:</p> <ul style="list-style-type: none"> · Graduate School Dissertation Writing Fellowship, Spring 2016 · College of Natural Sciences Dean's Excellence Award for academic achievements, Fall 2011 <p>Undergraduate awards:</p> <ul style="list-style-type: none"> · Prof. Abdelsamie Mustafa's award and Prof. Naaem Aboutaleb award for the top 2008 graduate. · Graduation project ranked the second in the 2008 Projects' Day. · The top 2006 and 2007 student on the Department of Computer and Systems Engineering. · Gold Medal in the Egyptian Olympiad in Informatics 2005 (programming contest). 	
Activities	<p>Leading two hackathon teams at Quora, one won best prototype.</p> <p>Organizer of the Deep Exploration and Filtering of Text reading group.</p> <p>Mentor of Alexandria University's programming competition team.</p>	<p>Summer 2017</p> <p>Summer - Fall 2013, Fall 2015</p> <p>Summer 2006</p>