

DEZHAO SONG

des308@lehigh.edu, <http://www.lehigh.edu/~des308>

EDUCATION	Lehigh University , Bethlehem, PA, United States Ph.D. Candidate in Computer Science , Advisor: Professor Jeff Heflin <ul style="list-style-type: none">• Semantic Web, Scalable and Domain-Independent Entity Coreference• GPA: 3.89.• Courses: Semantic Web Topics, Graph Mining and Social Networks, Search Engines, Advanced Algorithms, Intelligent Agents, Operating Systems, Software System Security.	2008 - present
	Beijing Institute of Technology , Beijing, China Master of Engineering in Computer Science , <ul style="list-style-type: none">• GPA: 3.2.• Courses: Computer Networks, Artificial Intelligence, Natural Language Processing.	2006 - 2008
	Beijing Institute of Technology , Beijing, China Bachelor of Engineering in Computer Science , <ul style="list-style-type: none">• GPA: 3.71; First Class Scholarships for academic excellence; recommended and admitted into graduate program with Graduate School Entrance Examination waived.• Courses: Data Structures, Computer Architecture, C/C++/Java/Visual Basic, Databases.	2002 - 2006
INTERNSHIP	Research Intern , Mayo Clinic <ul style="list-style-type: none">• Designed and developed a Protégé Plugin (Semantator) for manually annotating clinical narratives.• Connected Semantator to cTAKES and the NCBO annotator to enable automatic annotation.	Jun 2011 - Aug 2011
EXPERIENCES	Research Assistant , Lehigh University <ul style="list-style-type: none">• Ph.D. Dissertation Research<ul style="list-style-type: none">○ Developing domain-independent and scalable entity coreference systems on the Semantic Web.○ Exploring clustering algorithms for detecting coreference relationships from heterogeneous data.○ Developed a web application to support querying and contribution of Semantic Web knowledge.• DARPA Project - ADEN: Anomaly Detection Engine for Networks<ul style="list-style-type: none">○ Developing entity coreference algorithms to link free text mentions to structured data (e.g., DBpedia).○ Exploring clustering algorithms to cluster free text mentions.• NSF Project - Structuring, Reasoning, and Querying in a Very Large Medical Image Database<ul style="list-style-type: none">○ Designed and co-implemented a framework for cervical cancer patient classification.○ Developed algorithms to assist cervical cancer diagnosis by considering patient clinical test results.• DARPA Project - DAE: Document Analysis and Exploitation<ul style="list-style-type: none">○ Designed and applied a data model to store image data, experiment results and provenance in Oracle.○ Co-Designed and co-implemented a platform for document analysis researchers to execute algorithms and to interact with the backend Oracle database.○ Analyzed the feasibility of using Cloud Computing for data storage and running algorithms.	Jun 2009 - present

Dezhao Song

Teaching Assistant, Lehigh University

Aug 2008 - May 2009

- Assisted with six courses: Databases, Java Programming, User Interface and Techniques, Computer Graphics and Automata and Formal Languages. Responsibilities included grading homework and exams, debugging students' Java programs and one-to-one tutoring of students.

PROFESSIONAL SKILLS

- Platforms: Windows and Linux.
- Programming: Java, Weka, RDF, OWL, SQL, Lucene, XML, XSLT, JSP, JavaScript, Visual Basic, C and C++.
- Databases: Oracle and MySQL.

PUBLICATIONS

- Dezhao Song and Jeff Heflin. 2012. A Pruning Based Approach for Scalable Entity Coreference. The 25th International Florida Artificial Intelligence Research Society Conference (**FLAIRS-25**). Accepted. Full paper.
- Dezhao Song and Jeff Heflin. 2012. Domain-Independent Entity Coreference for Linking Ontology Instances. ACM Journal of Data and Information Quality (**JDIQ**). Accepted.
- Dezhao Song, Christopher G. Chute and Cui Tao. 2012. Semantator: Annotating Clinical Narratives with Semantic Web Ontologies. 2012 AMIA Summit on Clinical Research Informatics (**CR12012**). Accepted. Full paper.
- Dezhao Song and Jeff Heflin. 2011. Automatically Generating Data Linkages Using a Domain-Independent Candidate Selection Approach. The 10th International Semantic Web Conference (**ISWC2011**), 649-664.
- Dezhao Song and Jeff Heflin. 2011. Scaling Data Linkage Generation with Domain-Independent Candidate Selection. The 10th International Semantic Web Conference (**ISWC2011**). Poster paper.
- Dezhao Song, Christopher G. Chute and Cui Tao. 2011. Semantator: A Semi-automatic Semantic Annotation Tool for Clinical Narratives. The 10th International Semantic Web Conference (**ISWC2011**).
- Dezhao Song and Jeff Heflin. 2010. Domain-Independent Entity Coreference in RDF Graphs. The 19th ACM Conference on Information and Knowledge Management (**CIKM2010**), 1821-1824.
- Dezhao Song and Jeff Heflin. 2010. Domain-Independent Entity Coreference in RDF Graphs. Technical report, Lehigh University, LU-CSE-10-004.
- Henry F. Korth, Dezhao Song and Jeff Heflin. 2010. Metadata for Structured Document Datasets. International Workshop on Document Analysis Systems (**DAS**), Boston, USA.