

**Delroy Cameron**  
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## EDUCATION

- Wright State University, kno.e.sis Center (Jan. 2008 - Present)  
PhD Candidate, Computer Science
- The University of Georgia (Aug. 2005 - Dec. 2007)  
Master of Science in Computer Science
- Savannah State University (Aug. 2001 - May 2005)  
Bachelor of Science in Computer Science Technology

## RESEARCH INTERESTS

My research focusses on Text Mining using Health Care and Life Sciences (HCLS) data, by applying Semantic Web Technology and Natural Language techniques. Key research issues include entity extraction and annotation, relationship identification and triple extraction from both structured and unstructured text. I also work with Social Media, to discover spatial, temporal and thematic patterns and trends, mainly from unstructured text.

## PROJECTS

- *PREDOSE: PREscription Drug abuse Online-Surveillance and Epidemiology project*  
This is an NIH-funded project whose goal is to extract and analyze assertions obtained from web forum posts, to determine drug abuse trends, attitudes and behaviors unknown to experts.
- *Obvio: Literature-Based Knowledge Discovery using Semantic Predications*  
The goal of this work is to discover knowledge using assertions extracted from structured biomedical text together with assertions from structured knowledge sources. This work is ongoing following my 2010 summer internship at the National Library of Medicine (NLM).
- *Scooner: Semantic Browser*  
This project has evolved into a tool that facilitates knowledge discovery through user-driven text exploration. Scooner provides features such as entity annotation, semantic trailblazing, fact aggregation and collaborative information sharing.

## PROFESSIONAL ACTIVITIES

### Summer Research Intern

- National Library of Medicine (NLM) (Jun. 2010 - Sept. 2010)  
Bethesda MD

### Grants/Proposals (Significant participation)

1. NIH/R21 Grant (Funded - amount 400K, 7/2011-7/2013, 2yrs)
  - A Study of Social Web Data on Buprenorphine Abuse Using Semantic Web Technology
  - Kno.e.sis/CITAR (Center for Interventions, Treatment and Addictions Research, Wright State University, School of Medicine)
2. WSU/Department of Community Health Grant (Funded - 35K, 01/2011-9/2011, 9mths)
  - A Study of Social Web Data on Oxycontin Abuse Using Semantic Web Technology
  - Kno.e.sis/CITAR (preliminary work leading to NIH/R21 submission)

### External Reviewer

- IEEE Transactions on Services Computing (TSC 2010)
- IEEE Internet Computing Magazine (2010)
- Journal of Distributed and Parallel Databases (DAPD 2010)
- IEEE Transactions on Services Computing (TSC 2009)
- Semantic Web Engineering in the Knowledge Society (2007)

## SKILLS

- Programming Languages: Java, C++, C, C#, Perl, Python, Scheme
- Operating Systems: Mac OS, Linux (Fedora/Ubuntu), Solaris, MS Windows
- Web Programming: HTML, DHTML, CSS, JavaScript, JSP, Java Servlet, PHP, ASP
- Semantic Web/Web Services: OWL, RDF/XML, SOAP, WSDL, REST, Axis2
- Application Servers: Apache Tomcat, Apache HTTP Server
- Database Systems: Virtuoso, Oracle, MySQL, Microsoft SQL Server
- Distributed Computing: Hadoop, Pig Scripting

## PUBLICATIONS

### 2011

1. R. Daniulaityte, R. Carlson, R. Falck, **D. Cameron**, S. Udayanga, L. Chen, A. P. Sheth. A web-based study of self-treatment of opioid withdrawal symptoms with loperamide. (submitted)
2. **D. Cameron**, R. Kavuluru, O. Bodenreider, P. N. Mendes, A. P. Sheth, K. Thirunarayan. Semantic Predications for Complex Information Needs in Biomedical Literature, 5th International Conference on Bioinformatics and Biomedicine BIBM 2011, Atlanta GA, November

12-15, 2011 (acceptance rate=19.4%)

## 2010

1. **D. Cameron**, B. Aleman-Meza, S. L. Decker, I. B. Arpinar, A. P. Sheth, A Taxonomy-based Model for Expertise Extrapolation. International Conference on Semantic Computing ICSC 2010, Pittsburgh PA, September 22-24, 2010 (acceptance rate=32%)
2. C. Thomas, W. Wang, P. Mehra, **D. Cameron**, P. N. Mendes, A. P. Sheth, What Goes Around Comes Around Improving Linked Open Data through On-Demand Model Creation, Web Science Conference, WebSci 2010, (Co-located with 19th International World Wide Web Conference - WWW 2010) Raleigh NC, April 26-27, 2010
3. P. N. Mendes, P. Kapanipathi, **D. Cameron**, A. P. Sheth, Dynamic Associative Relationships on the Linked Open Data Web, Web Science Conference, WebSci10, (Co-located with 19th International World Wide Web Conference - WWW 2010) Raleigh NC, April 26-27, 2010
4. **D. Cameron**, P. N. Mendes, A. P. Sheth, V. Chan, Semantics-Empowered Text Exploration for Knowledge Discovery, 48th ACM Southeast Conference, ACMSE 2010, Oxford Mississippi, April 15-17, 2010

## 2008

1. B. Aleman-Meza, S. L. Decker, **D. Cameron**, I. B. Arpinar, Association Analytics for Network Connectivity in a Bibliographic and Expertise Dataset, Semantic Web Engineering in the Knowledge Society, 2008

## 2007

1. D. Luper, **D. Cameron**, J. A. Miller, H. R. Arabnia, Spatial and Temporal Target Association through Semantic Analysis and GPS Data Mining, 5th International Conference on Information and Knowledge Engineering, IKE 2007, Las Vegas Nevada, June 25-28, 2007
2. **D. Cameron**, B. Aleman-Meza, I. B. Arpinar, Collecting Expertise of Researchers for Finding Relevant Experts in a Peer-Review Setting, 1st International ExpertFinder Workshop EFW 2007, (Co-located with 7th Knowledge Web General Assembly) Berlin Germany, January 16, 2007

## 2006

1. M. Lewis, **D. Cameron**, S. Xie, I. B. Arpinar, ES3N: A Semantic Approach to Data Management in Sensor Networks, Semantic Sensor Networks Workshop SSN 2006, (Co-located with 5th International Semantic Web Conference ISWC 2006), Athens GA, November 5-9, 2006

## REFERENCES

1. Amit P. Sheth (Advisor)  
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