

# CURRICULUM VITAE

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Zachary D. Jorgensen

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## EDUCATION:

### **PhD, Computer Science**

North Carolina State University, Raleigh, NC

Graduation expected in 2014

### **BS, Computer Science with Minor in Mathematics**

University of South Alabama, Mobile, AL

Graduated in spring, 2006

GPA: 3.52/4.0, *cum laude*

### **MS, Computer Science**

University of South Alabama, Mobile, AL

Graduated in summer, 2008

GPA: 4.0/4.0

Master's Thesis: "A Multiple Instance Learning Strategy for Combating Good Word Attacks on Statistical Spam Filters"

Advisor: Dr. Yan Zhou, University of South Alabama

## RESEARCH INTERESTS:

I am a member of the Cyber Defense Lab working under Dr. Ting Yu. I am currently exploring possible research directions in the field of computer security, including phishing and insider attacks. My previous research, at the University of South Alabama, focused primarily on combating email spam and adversarial attacks on statistical spam filters. I also worked briefly on developing machine learning based counterattack strategies against image-based adversarial attacks on spam filters.

## PUBLICATIONS:

Zach Jorgensen, Yan Zhou, Meador Inge. A Multiple Instance Learning Strategy for Combating Good Word Attacks on Spam Filters. *Journal of Machine Learning Research*. 9 (Jun. 2008), 1115-1146, 2008.

Yan Zhou, Zach Jorgensen, Meador Inge "Combating Good Word Attacks on Statistical Spam Filters with Multiple Instance Learning", *19th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'07)*, 2007

Oleksandr Grygorash, Yan Zhou, Zach Jorgensen, "Minimum Spanning Tree Based Clustering Algorithms", *18th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'06)*, pp. 73-81, 2006

## HONORS & AWARDS:

### North Carolina State University

*Raleigh, NC*

- Research Assistantship under Dr. Ting Yu (summer 2009)
- Teaching Assistantship (fall 2008 - spring 2008)
- Dean's Fellowship (fall 2008 - spring 2008)

### University of South Alabama

*Mobile, AL*

- Graduate Assistantship (summer 2006 - spring 2008)
- Upsilon Pi Epsilon International Honor Society (2005)
- Golden Key International Honor Society (2004)
- Phi Eta Sigma National Honor Society (2005)
- Phi Kappa Phi National Honor Society (2007)
- Outstanding Service Award, School of CIS (2006)
- Children of Alumni Scholarship (2003)
- Bay Area Scholarship (2002)

## SKILLS:

Python	C#	C\C++
Java	PHP	Perl
LaTeX	Linux\Windows	Visual Studio .NET
WEKA	Web Development	Database Design

## EXPERIENCE:

2008 to Present

### Graduate Teaching Assistant

*North Carolina State University, Computer Science, Raleigh, NC.*

- Grade exams and homework assignments
- Construct assignments
- Hold office hours and answer emails from students

2006 to 2008

### Graduate Assistant

*University of South Alabama, School of CIS, Mobile, AL*

Responsible for administering computer proficiency exams to incoming freshman and transfer students

1999 to 2008

### Freelance Web Developer

*Mobile, AL*

- Designed custom websites for local businesses and organizations
- Developed web-based applications (Perl, PHP, MySQL, etc.)