

Michael Albrecht

CS Graduate Student

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Education

- 2008 – 2010 **M.S.CSE in Computer Science and Engineering**, *University of Notre Dame.*
2004 – 2008 **B.S in Computer Science**, *University of Notre Dame.*

Scholarships

- 2008 – Present **Arthur J. Schmitt Foundation Fellowship.**

Research Interest

- Distributed Computing and Storage
- Active Storage
- Filesystems
- Graph Theory and Algorithms
- Web Services

Research Projects

- Fall 2008 – Present **Data Locality Aware Computing and Active Storage**, Investigating the performance benefits of using active storage in large-scale distributed workflows..
Advisor: Dr. Douglas Thain
- Summer 2008 – Fall 2010 **GRAND Data Lab**, Developed a data visualisation and analysis platform with a web-based interface for Astrophysics data.
Advisors: Dr. Douglas Thain and Dr. John Poirier
- Summer 2007 **Applying SVMs to Face Recognition**, Investigated using Support Vector Machines for improving performance in face recognition.
Advisor: Dr. Nitesh Chawla
- Summer 2005 and 2006 **Laser Interferometry corrections for Beam Position Monitors**, Developed an interface for and ran experiments testing the stability of BPMs at the SLAC Linear Accelerator.
Advisor: Dr. Michael Hildreth

Publications

Master's Thesis

Design of a Data Repository for a Long-Running Physics Experiment, Michael R. Albrecht, Masters Thesis, Sept 2010. Copy available at <http://cse.nd.edu/~malbrec2/papers/malbrec2-thesis.pdf>

Teaching Experience

Teaching Assistant

Fall 2010 Introduction to Systems Administration
Basic Unix for Engineers

Fall 2009 Computer Graphics

Skills

Software

Operating Systems

Windows, Linux

Programming Languages

Compiled C, C++, Java

Scripting Perl, bash/tcsh, HTML/CSS, PHP, JavaScript

Libraries and APIs MPI, OpenGL, FUSE, Amazon S3, CCTools – WorkQueue, Parrot, Chirp

Tools

Version Control SVN, some git

Graphics / Publishing \LaTeX , Microsoft Office, OpenOffice, GNUplot, GIMP

Database / Web MySQL, some Oracle, Apache

Workflow Make, Makeflow

Language

English: Native Speaker

Spanish: some from High School

References

Available on Request