

David Coss, Ph.D.

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Education

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| 2010 | Ph.D., Physics
University of Missouri, St. Louis, Missouri. |
| 2007 | M.S., Physics
University of Missouri, St. Louis, Missouri. |
| 2004 | B.A., Physics & German
Belmont University, Nashville, Tennessee. |
| 2002 - 2003 | Exchange Student in Physics
Technische Universität, Dresden, Germany.
All courses given in German |
| 2002 | Intermediate 2 (Mittelstufe 2) German Language Certification
Goethe Institute, Munich, Germany. |

Presentations

- D. Coss, "Gravitational Lensing Shear Simulations Using Fast Fourier Transform." NASA Missouri Space Grant Consortium. April 17-18, 2009 .
- D. Coss, R. Flores, "BRaTS@Home and BOINC Distributed Computing for Parallel Computation." AAS Meeting #212 Poster 24.10. June 2-5, 2008.
- D. Coss, "Simulation of Gravitational Lensing." NASA Missouri Space Grant Consortium. April 11-12, 2008.
- D. Coss, R. Magruder, "Optical Density of Ge Implanted Type III and Type IV Silica and Si Implanted Type III Silica." Senior Undergraduate Research Symposium, Belmont University 2004.
- D. Coss, "Photoluminescence of Oxygen Implanted Silica." Journal of Proceedings of the Belmont Undergraduate Research Symposium, 12(2004), 93-98.
- D. Coss, "Symbolic Computation in Java," Journal of Proceedings of the Belmont Undergraduate Research Symposium, 12(2004), 116-119.

Teaching Experience

Instructor UMSL, Department of Physics & Astronomy.

- Physics 1012. Summer 2009
Physics for Pre-medical Students
- Physics 1011 & 1012. Summer 2008
Physics for Pre-medical Students
- Physics 1012. Summer 2007
Physics for Pre-medical Students

Teaching Assistant UMSL, Department of Physics & Astronomy. 2005 - 2007, 2009

- Physics 2111
Calculus Physics for Physical Science and Engineering Majors: Mechanics and Heat
- Physics 2112
Calculus Physics for Physical Science and Engineering Majors: Electricity, Magnetism and Optics Discussion and Lab

Educational Assistant St Louis Community College, Academic Support Center. Summer 2006

- Intermediate Algebra

Academic Leadership

- Chairperson of Graduate Student Committee, advising Dean of College of Arts & Science, 2009.
- Represented the Department of Physics at the university's annual Professional Development Conference for Teaching Assistants & Research Assistants, 2007 and 2008.

Academic Awards

First Place Graduate Student Poster Contest, *4th UMSL/Missouri S&T Physics Department Meeting*, October 24, 2008.

Outstanding Teaching Assistant Award, *American Association of Physics Teachers*, 2008.

NASA/Missouri Space Consortium Graduate Fellowship, 2010.

NASA/Missouri Space Consortium Graduate Fellowship, 2008 - 2009.

NASA/Missouri Space Consortium Graduate Fellowship, 2007 - 2008.

Computer Skills

- Proficient in C++, Java, Perl, PHP, CSS, XML and HTML.
- Fluent use of Linux, Windows XP and Vista operating systems.
- Two Years practical experience in administration of Apache Webserver and Mysql Databases.
- Primary project administrator of BOINC Distributed Computing project and application development for parallel computing.
- Frequent use of TeX and Microsoft Office.

Technical Skills

- Federal Communications Commission Amateur Radio License: Technician KD0KFO, 2010.

Professional Memberships

American Astronomical Society, Junior Member, 2008 - Present.

American Association of Physics Teachers, Student Member, 2008 - Present.

Sigma Xi, Associate Member, 2006 - Present.

References

- Dr. Ricardo Flores
(Thesis Advisor) Professor, Department of Physics & Astronomy
University of Missouri – St Louis
email: floresr@umsl.edu
- Dr. Bruce Wilking
Department Chairperson and Professor, Department of Physics & Astronomy
University of Missouri – St Louis
email: bwilking@umsl.edu
- Dr. Ta-Pei Cheng
Professor Emeritus, Department of Physics & Astronomy
University of Missouri – St Louis
email: tpcheng@umsl.edu
- Dr. Sonya Bahar
Associate Professor, Department of Physics & Astronomy
University of Missouri – St Louis
email: bahars@umsl.edu