

James M. Hughes

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- EDUCATION
- ◇ **Dartmouth College**, Hanover, NH
Currently pursuing a Ph.D. in Computer Science with research emphasis in Computational Neuroscience
 - ◇ **Kalamazoo College**, Kalamazoo, MI
B.A. *summa cum laude* with honors in Computer Science and German Language & Literature, June 2007
Senior Thesis: *Pseudo-Random Number Generation Using Binary Recurrent Neural Networks*
Cumulative GPA: 4.0
 - ◇ **Friedrich-Alexander-Universität Erlangen-Nürnberg**, Erlangen, Germany
Completed one academic year of study abroad, October 2005 - July 2006
Undertook an *integrative cultural research project* examining the possibilities for societal integration of minorities in Germany
- EXPERIENCE
- ◇ **Summer Research Student**, Frankfurt Institute for Advanced Studies
August 2006
Completed research in computational neuroscience using the dynamics of simulated binary recurrent cortical neurons to generate pseudo-random data; awarded a **Howard Hughes Medical Institute International Research Grant** totaling \$7000 for research completed in Frankfurt, Germany
 - ◇ **Freelance Programmer**, musicandbooks.de
February 2006 - May 2006
Wrote a php-based database interaction system for the management of product inventories, both for the end-user and inventory managers for a used books and music store in Germany
 - ◇ **Summer Research Student**, Kalamazoo College Department of Computer Science
June 2005 - August 2005
Translated software for the Registrar's office and implemented new features for the First Year Registration System, a program developed by a Kalamazoo College faculty member and other students for automating the college's registration process; awarded a **Kalamazoo College Student/Faculty Research Grant** totaling \$2500 for this research
 - ◇ **Teaching Assistant**, Kalamazoo College Department of Computer Science
September 2004 - June 2007
Assisted in lab sessions with programming- and software-related issues; held office hours for students in Computer Science Courses; corrected homework assignments and projects of students in Computer Science courses
 - ◇ **Teaching Assistant**, Kalamazoo College Department of Physics
March 2005 - June 2005
Assisted in programming lab for Intermediate Dynamics; helped create Java packages for use with the provided development software for physical simulation software suite written in Java

- ◇ **Resident Computer Consultant**, Kalamazoo College Information Services
September 2003 - June 2005
Assisted students in removing viruses from their computers; fixed minor hardware- and software-related problems; maintained network connections in the dorms; enforced network policy of the college; installed and updated relevant software
- AWARDS AND HONORS
 - ◇ **Inductee, Phi Beta Kappa**
Kalamazoo College Chapter, 2006
 - ◇ **Recipient, Joe Fugate Senior German Departmental Award**
Awarded for excellence in the senior year in German, 2007
 - ◇ **Recipient, Gustave W. and Mina B. Moessen Honors Award**
Given to seniors in recognition of graduating with the highest honor distinction, 2007
 - ◇ **Recipient, Computer Science Prize awarded for excellence in the first year's work in computer science**
Kalamazoo College Honors Convocation, November 2004
 - ◇ **Inductee, Alpha Lambda Delta (National First Year Honor Society)**
Kalamazoo College Chapter, November 2004
- ACTIVITIES AND INTERESTS
 - ◇ **Actor, Director, and Producer, Kalamazoo Broadcasting Company**
September 2006 - June 2007
Involved in television studio production and creating of original content for campus television network
 - ◇ **Volunteer, Grund- und Teilhauptschule Büchenbach "Mönauschule", Erlangen-Büchenbach, Germany**
November 2005 - December 2005
Helped with lessons for German middle school children starting to learn English
 - ◇ **Disc Jockey & Lead Technician, WJMD Radio Kalamazoo College**
January 2005 - June 2005
 - ◇ **Treasurer, Association for Computing Machinery Student Organization**
September 2004 - June 2005
 - ◇ **Member, Kalamazoo College Democrats**
May 2003 - November 2005
 - ◇ **Volunteer, Building Blocks Program**
May 2004, 2005
Helped do major house repair and landscaping work in this community building and neighborhood improvement program
- MUSIC
 - ◇ **Cellist, Kalamazoo College & Community Orchestra**
September 2003 - June 2007
 - ◇ **Cellist, Secret Garden Pit Orchestra**
September 2006 - November 2006
 - ◇ **Cellist, Kalamazoo College Chamber Orchestra**
September 2004 - June 2005
Part of a community outreach program to bring classical music to groups that otherwise would have little or no access to it, such as the homeless and senior citizens in assisted living facilities
 - ◇ **Recipient, Fan E. Sherwood Memorial Prize awarded for outstanding progress and ability on the violin, viola, cello, or bass**
Kalamazoo College Honors Convocation, November 2006
 - ◇ **Recipient, Fan E. Sherwood Memorial Prize awarded for outstanding progress and ability on the violin, viola, cello, or bass**
Kalamazoo College Honors Convocation, November 2005

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- ◇ **Composer, Musician, Producer**, writing, producing, and performing original works in various genres, including classical, indie pop/rock, and electronica; capable player of the cello, piano, and guitar