

# JOY W KAMUNYORI

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## Education

**Vassar College**, Poughkeepsie, NY  
Bachelor of Arts in Computer Science and Economics  
Cumulative GPA: 3.84  
Major GPA: **Computer Science:** 3.81; **Economics:** 3.79  
anticipated May 2005

## Research Experience

**Distributed Mentor Program (DMP)**, Texas A&M University, College Station, TX  
June 2004 – August 2004  
▪ Developed motion planning algorithms for hexagonal metamorphic robots

**Independent Study**, Vassar College  
January 2004 – May 2004  
▪ Investigated parallel programming of a weighted-ensemble Brownian motion simulator in both C++ and Java

**Undergraduate Research Summer Institute (URSI)**, Vassar College  
May 2003 – August 2003  
▪ Developed a Brownian motion simulator in C++, applied the weighted-ensemble Brownian dynamics algorithm to it, and began to parallelize the modified simulator

## Technical Presentations

**Poster presentation, Distributed Mentor Program Reunion, Swissôtel Chicago, Chicago, IL**  
October 2004  
▪ “Enveloping Multiple Obstacles with Hexagonal Metamorphic Robots,” Joy Kamunyori and Jennifer Walter

**Technical talk, Mid-Hudson Technology Council Scintilla Forum, State University of New York Dutchess Community College, New Paltz, NY**  
May 2004  
▪ “Parallelizing an Algorithm for Brownian Motion”

**Poster presentation, Consortium for Computing Sciences in Colleges – Northeastern Conference, Union College, Schenectady, NY**  
April 2004  
▪ “Investigating Weighted-Ensemble Brownian Dynamics,” Joy Kamunyori and Bradley Richards

**Poster presentation, Undergraduate Research Science Institute Symposium, Vassar College**  
September 2003  
▪ “Investigating Weighted-Ensemble Brownian Dynamics,” Joy Kamunyori and Bradley Richards

## Work Experience

**Computing and Information Services, Vassar College**

▪ **Help Desk Expert, Advanced**  
September 2003 – Present  
• Assist CIS professional staff in providing technical support to administrative and faculty offices  
• Assist professional staff in the maintenance of public computer labs

▪ **Help Desk Expert, Intermediate**  
September 2002 – May 2003  
• Provided technical support for students both on the phone and on location  
• Troubleshoot walk-in technical problems for both students and faculty

▪ **Help Desk Operator**  
October 2001 – May 2002  
• Managed phone calls and collected information received from them  
• Entered technical issues into department-wide database for organization and distribution to relevant professional staff

## Volunteer Experience

**Mentor, Big Brothers Big Sisters of Dutchess County, Poughkeepsie**  
September 2003 – Present  
▪ Act as a positive role model and support system for a young girl at a local elementary school

## Honors

▪ **Shirley Oakes Butler Scholar**, Vassar College  
September 2002 – Present

▪ **Best Student Presenter**, Mid-Hudson Technology Council Scintilla Forum  
May 2004

## Activities

▪ **Member**, Vassar College Women's Chorus, Vassar College  
September 2001 – Present

▪ **Member**, Vassar College Women's Squash Team, Vassar College  
September 2004 - Present

▪ **Member**, African Students' Union, Vassar College  
April 2002 – Present

▪ **Attendee**, Grace Hopper Celebration of Women in Computing, Chicago, IL  
October 2004

▪ **Attendee**, Grace Hopper Celebration of Women in Computing, Vancouver, BC  
October 2002

## Skills

**Computer:** Proficient in Windows, Macintosh and Unix operating systems. Computer languages include C++, Java, Dr. Scheme, Prolog, Haskell, Python and HTML

**Languages:** Fluent in French and Swahili