

# Maria A. Kazandjieva

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## Present Address:

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13 Tundja Street  
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## Education

**Stanford University**, Palo Alto, CA  
Candidate for PhD in Computer Science  
September 2007 –

**Mount Holyoke College**, South Hadley, MA  
Bachelor of Arts, *Magna Cum Laude*, December 2006  
Major: Computer Science  
Minor: Mathematics  
G.P.A.: 3.85/4.00

## Research Interests

mobile computing platforms, wireless and sensor networks, energy- and resource-efficiency

## Research Experience

**Research Assistant**, February 2007 – Present  
Princeton University – Electrical Engineering Department

- Advisor: Prof. Margaret Martonosi
- SARANA: A **S**patially **A**ware, **R**esource **A**ware **N**etwork **A**rchitecture that examines how the nature of computing changes as all devices become mobile and we want to leverage the existing computing infrastructure to run large scale, spatially aware applications
- Work on developing SARANA for constrained devices such as Windows Mobile SmartPhones

**Research Internship**, Summer 2006  
Princeton University – Electrical Engineering Department

- Advisor: Prof. Margaret Martonosi
- Topic: Lightweight Economic Models for Resource Sharing in Mobile Networks
- Examine resource price formation and effect, in a wireless sensor network

**Research Assistant**, Fall 2005 – Spring 2006  
Mount Holyoke College – Computer Science Department

- Advisor: Prof. Sami Rollins
- Topic: Energy-Efficient Data Management for Mobile Devices

**Research Internship**, Summer 2005  
University of Massachusetts – Electrical and Computer Engineering Department

- Advisor: Prof. Lixin Gao
- Topic: Client-Server Communications using Bluetooth and RFID technology

## Teaching Experience

**Teaching Assistant and Grader**, Fall 2006  
Mount Holyoke College – Statistics Department

- Tutor students in introductory statistics

- Grade weekly homework assignments
- Assist with SPSS software usage

**Technology Mentor**, Spring 2005

Mount Holyoke College – Mathematics Department

- Assist students and professors with implementing technology in classes
- Organize computer training sessions – LaTeX, MS Office, etc
- Hold office hours and one-to-one appointments with students

**Instructor**, January 2005, January 2006

Mount Holyoke College, January Term Program

- Independently teach a 4 day course in LaTeX for both students and professors

**Teaching Assistant**, Fall 2004

Mount Holyoke College – Computer Science Department

- Assist students with implementing C/C++ projects

**Posters**

Maria Kazandjieva and Margaret Martonosi. [Lightweight Economic Model for Resource Sharing in Wireless Networks](#). Poster in ACM SIGCSE 2007 Student Research Competition. Second Place Award in ACM Grand Finals Undergraduate Category.

Denitsa Tilkidjieva, Nilanjan Banerjee, Maria Kazandjieva, Sami Rollins, Mark D. Corner. [LLAMA : An Adaptive Strategy for Performing Background Tasks on Mobile Devices](#). Poster. In 7th IEEE Workshop on Mobile Computing Systems and Applications (WMCSA 2006).

**Technical Reports**

Denitsa Tilkidjieva, Nilanjan Banerjee, Maria Kazandjieva, Sami Rollins and Mark D. Corner, [LLAMA: An Adaptive Strategy for Utilizing Excess Energy to Perform Background Tasks on Mobile Devices](#) Technical Report 06-44. University of Massachusetts-Amherst, Amherst, MA. January, 2005.

**Awards**

**ACM Grand Finals, Undergraduate Category, Second Place**, June 2007  
**SIGCSE '07 Student Research Competition, Second Place**, March 2007  
**CS & Engineering Research Fellowship, U of Washington**, March 2007 (declined)  
**Citrix Go-To Fellowship, Citrix Online, S. Barbara, CA**, February 2007 (declined)  
**Starr Scholar, C.V. Foundation**, September 2006  
**CRA-W Distributed Mentor Project**, Summer 2006  
**Howard Hughes Medical Institute Summer Research Fellowship**, Summer 2006  
**Starr Scholar, C.V. Starr Foundation**, February 2006  
**Sarah Williston Scholar**, October 2005  
**CRA-W Distributed Mentor Project Award**, Summer 2005  
**Mildred L. Sanderson Prize for Excellence in Mathematics**, May 2004

**Computer Platforms**

Windows OS, Mac OS, Linux OS, Windows Mobile, Symbian

**Computer Languages**

C/C++/C#, Java/Swing, Python, Perl, HTML, Javascript, LISP, Haskell, Prolog

**Activities**

ACM Student Member  
 World Wildlife Fund Memeber