

# ADINA - RALUCA STOICA

Bard College, 30 Campus Road, Annandale-on-Hudson, New York 12504

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## EDUCATION

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**Bard College**, Annandale-on-Hudson, NY 12504-5000 **2007-2011**  
• **B.A.** expected May 2011, **Computer Science** • **GPA** (cumulative, 2007-Present): **3.60**

## HONORS AND AWARDS

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**Bard Globalization and International Affairs Program**, New York, NY **Spring 2010**  
• Selected to participate in a competitive academic and internship program

**Distinguished Scientist Scholarship (DSS)**, Bard College **2007-2011**  
• Full-tuition scholarship awarded for four years

**NSF Grant Recipient**, under Dr. Ioannis Pavlidis' grant #ISS-0812526 "*Do Nintendo Surgeons Defy Stress?*" **Summer 2009**  
• Received NSF funding for the summer research conducted at the University of Houston

**DSS Summer Stipend for Research**, Bard College **Summer 2008**  
• Received stipend for the summer research conducted at the University of Houston

## RELEVANT COURSEWORK

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- Data Structures, Intelligent Robots, Robot-Human Interfaces, Modeling and Simulation, Computer Networks, Artificial Intelligence, Computer Graphics, Design of Programming Languages, Algorithms (currently taking), Discrete Mathematics, Calculus III, Graph Theory, Abstract Algebra

## COURSE HIGHLIGHTS

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### Intelligent Robots Workshop:

- Used C to program Pioneer robots in giving visitors the tour of the Bard Science Building (RKC)

### Discrete Math:

- Developed a Mathematica application that computes conjugation quandles

### Modeling and Simulation:

- Used NetLogo to model a solar system with the planets in orbit and a comet influenced by the planet's gravity

### Computer Graphics:

- Used OpenGL and C to develop a flight simulation program over the State of NY using real height-map data

## RESEARCH EXPERIENCE

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**Intern, Computational Physiology Lab (CPL)**, University of Houston, Houston, TX **Summer 2009**  
• Received National Science Foundation grant to perform summer research on the project "*Do Nintendo Surgeons Defy Stress?*" in the Computational Physiology Lab (CPL)  
• Analyzed the effectiveness of a novel contact-free emotional perspiration measurement technology for the Concealed Information Test (CIT), developed by the CPL, which uses the facial thermal signature to capture an emotional perspiration response from the peri-nasal area  
• The analysis demonstrated that the contact-free perspiration measurement technology is one step closer to being used in practical applications, such as polygraph examinations  
• A paper is being developed at the University of Houston using results from my research  
• A poster abstract has been submitted for reviewing for the 2010 CUR National Conference

**REU Participant, Undergraduate Research Experience in Computational Science and Cybersecurity**, University of Houston, Houston, TX **Summer 2008**

- Worked in the CPL on project *Analysis of the Blood Perfusion and Perspiration Components of the Supraorbital Thermal Signature* to develop a novel stress analysis method using thermal imaging
- Focused on using mathematical techniques (coded in MATLAB) to detect stress based on thermal images; some of the applications of the project include stress analysis in surgical training, lie detection and office stress analysis
- Wrote a paper and designed a poster showcasing my research and accomplishments

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- Won a university-wide REU poster competition
- Presented the poster in the University Research Day at UH on September 2008

**Research Assistant, Laboratory for Algebraic and Symbolic Computation (ASC), Bard College** 2008-2009

- The ongoing research project of the lab is the classification of quandles
- My recent work includes improving a Mathematica-based GUI for viewing quandles

## WORK EXPERIENCE

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**Computer Lab Monitor, Bard College, Annandale-on-Hudson, NY** 2008-2010

- Supervise computer lab, help students with questions ensure computers are working properly

**Lab Assistant, Bard College Center for Foreign Languages and Cultures** 2008-2010

- Supervise the lab, answer students' questions, answer phone calls, maintain a database of movies and educational resources, help foreign language professors and tutors

**Office Assistant, Bard College Office of Residence Life** 2007-2008

- Responsible for answering phone calls, scheduling appointments, filing student documents

## EXTRACURRICULAR ACTIVITIES

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**CCSCNE Student Programming Competition** 2008-2009

- Part of the Bard College team, placed 7<sup>th</sup> out of 29 in 2009.

**International Student Organization (ISO)** 2007-Present

- Activities related campus diversity (ISO Fashion Show, ISO Food Festival)

## LANGUAGE SKILLS

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- Romanian-native
- English-proficient
- French-advanced
- Spanish-beginner
- Italian-novice

## COMPUTER SKILLS

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**Operating Systems:** Windows, Linux, Mac OS

**Software:** Microsoft Office (Word, Excel, Access, PowerPoint), Open Office

**Programming Languages:** C/C++, Java, OpenGL, Prolog, SML, Wolfram Mathematica, MATLAB

**Other:** HTML, Flash, Photoshop, Dreamweaver, NetLogo

## HOBBIES AND INTERESTS

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- Software Engineering, Artificial Intelligence, Robotics, Human-Computer Interfaces
- Foreign Languages
- Biking, skating, photography, reading, watching movies, traveling, meeting people with diverse backgrounds