

## Michael Hewner

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CONTACT INFORMATION	(716) 517-7671 hewner@gatech.edu <a href="http://hewner.com">http://hewner.com</a>	965 Howell Mill Rd. Atlanta, GA 30318
INTERESTS	CS Education and CS Education Research	
EDUCATION	<b>Georgia Tech</b> , Atlanta, Georgia  Ph.D., Human-Centered Computing, (anticipated) December 2011 <ul style="list-style-type: none"><li>• Thesis Topic: <i>Student Conceptions About the Field of Computer Science</i></li><li>• Thesis Proposal Accepted January 2010</li><li>• Adviser: <a href="#">Professor Mark Guzdial</a></li><li>• Area of Study: Computer Science Education</li><li>• GPA 4.0</li></ul> <b>University of Illinois at Urbana-Champaign</b> , Urbana, Illinois  M.S., Computer Science, May 2003 <ul style="list-style-type: none"><li>• Thesis Topic: <i>Implementing the Tagged Integer Optimization on the .NET Virtual Machine</i></li><li>• Adviser: <a href="#">Professor Ralph Johnson</a></li><li>• Area of Study: Software Engineering, Object-Oriented Programming</li><li>• GPA 3.81</li></ul> B.S., Computer Science, December 2001 <ul style="list-style-type: none"><li>• Graduated in 2.5 years</li><li>• GPA 3.61</li></ul>	
TEACHING EXPERIENCE	<b>Georgia Tech</b> , Atlanta, Georgia  <i>Student Mentor</i> <span style="float: right;"><b>Fall 2010</b></span> CS 6452: Rapid Prototyping (graduate course) <ul style="list-style-type: none"><li>• Topics: Jython, GUI frameworks, networking, OO-design, databases</li><li>• Held regular office hours, responded to student emails</li><li>• Taught 2 lectures: Python Fundamentals and Databases</li></ul> <i>Teaching Practicum</i> <span style="float: right;"><b>Fall 2009</b></span> CS 2110: Computer Organization and Programming (undergraduate level course) <ul style="list-style-type: none"><li>• Topics: processor architecture, assembly language, C</li><li>• Observed classes, TA recitations, and met weekly with teacher to discuss teaching</li><li>• Taught guest lectures on Memory Mapped IO and The Stack/Malloc</li></ul> <b>Governor's Honors Program</b> , Valdosta, Georgia A competitive summer program for high school juniors sponsored by the state of Georgia  <i>Math Lab Tech</i> <span style="float: right;"><b>Summer 2010</b></span> Introductory Delphi Programming (high school course) <ul style="list-style-type: none"><li>• Topics: variables, functions, GUIs, functions, Monte Carlo simulations, complex math</li><li>• Co-taught multiple daily classes of introductory programming for advanced high school math students</li></ul>	

- Advised students on self-directed programming projects
- Taught guest lectures on P/NP, Graph Theory, Graph Coloring, Embedded Device Programming, and Unix Command Line usage
- Will return in Summer 2011 as full instructor

**University of Washington**, Seattle, Washington

*Visiting Instructor*

**Summer 2008**

CSE143: Computer Programming II (undergraduate course)

- Topics: algorithm design, objects, recursion, linked-lists, trees
- Taught 80+ students
- Developed lectures, exams, managed TAs

**University of Illinois**, Urbana, Illinois

*Teaching Assistant*

**Spring 2002–Spring 2003**

Software Engineering I and II (mixed graduate/undergraduate course)

- Topics: software processes, UML, object-oriented design, project management, software tools
- TA for 80+ students
- Held regular office hours, managed student project work
- Developed and graded homeworks and exams
- Led other TAs

TEACHING–  
RELATED  
EXPERIENCES

*Mini-courses*

- High School Mentor Training: Three Lectures on the Subfields of CS and Student Goals (Spring 2010)

*Guest Lectures*

- High School Presentation: Careers in Video Game Programming (August 2010 and February 2011)
- Educational Technology Class: Identity and CS Education (November 2009)
- Sample lecture for Teaching Course: Big O (November 2009)
- Educational Technology Class: Resnick and Distributed Thinking (February 2009)
- High School Presentation: Subfields of CS (Fall 2008)

*Student Mentoring*

- Tutored math at Rainier Beach High School (Fall 2006)
- Mentored high school students as part of [Community for Youth](#) program (Fall 2004–Fall 2006)

PUBLICATIONS

M. Hewner and M. Guzdial. *What Game Developers Look for in a New Graduate: Interviews and Surveys at One Game Company*. presented at ACM Technical Symposium on Computer Science Education (SIGCSE 2010). Milwaukee, WI USA, March 10-13, 2010.

A. Bruckman, M. Biggers, B. Ericson, T. McKiln, J. Dimond, B. DiSalvo, M. Hewner, L. Ni, S. Yardi. *‘Georgia computes!’: improving the computing education pipeline*. presented at ACM Technical Symposium on Computer Science Education (SIGCSE 2009). Chattanooga, TN USA, March 4-7, 2009.

M. Hewner and M. Knobelsdorf. *Understanding Computing Stereotypes with Self-Categorization Theory*. presented at Koli Calling International Conference on Computer Science Education (Koli Calling 2008). Koli National Park, Finland, November 13 - 16, 2008.

M. Hewner and M. Guzdial. *Attitudes about Computing in Postsecondary Graduates*. presented at Fourth International Computing Education Research Workshop (ICER 2008). Sydney, Australia, September 6-7 2008.

INDUSTRY  
EXPERIENCE

**Zipper Interactive**, Seattle, Wahington

*Video Game Programmer*

**May 2009–August 2009**

- Programmed C++ for two Playstation 3 first person shooter titles
- Interviewed developers about what they for in a programmer hire

**Amazon.com**, Seattle, Wahington

*Software Engineer*

**June 2003–June 2006, January 2007–July 2007**

- Technical Lead for a 7 person team, coded many projects in C++ and Perl
- Promoted after 1.5 years to SDE II
- Developed “Ninja Coder” programming riddle project
- Interviewed 100+ developer candidates

**Progressive Insurance**, Cleveland, Ohio

*Developer Intern*

**Summer 2002, Summer 2001**

- Developed Smalltalk for rate setting system
- Developed Visual Basic for Progressive website

**National Center for Supercomputing Applications**, Urbana, Illinois

*Student Programmer*

**December 1999–September 2000**

- Worked on system for predicting molecular structure
- Built system for atom categorization

REFERENCES

**Mark Guzdial** (email: [guzdial@cc.gatech.edu](mailto:guzdial@cc.gatech.edu); phone: 404-894-5618)

- Professor, Georgia Tech
- ◊ *Mark is my adviser.*

**Keith Edwards** (email: [keith@cc.gatech.edu](mailto:keith@cc.gatech.edu); phone: 404-385-6783)

- Professor, Georgia Tech
- ◊ *Keith observed my teaching/student interactions in the Rapid Prototyping course and is also on my dissertation committee.*

**Ralph Johnson** (email: [johnson@cs.uiuc.edu](mailto:johnson@cs.uiuc.edu); phone: 217-244-0093)

- Professor, University of Illinois at Urbana–Champaign
- ◊ *Ralph was my Masters adviser and taught the software engineering courses I TAed.*