

# MATHIAS GUENTER RICKEN

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## EDUCATION

**Rice University**, Houston, TX

Ph.D. Candidate in Computer Science. GGPA 3.98/4.00

Research Area: Programming Languages. Advisor: Dr. Robert Cartwright

**Rice University**, Houston, TX

M.S. in Computer Science October 2007

Thesis: "A Framework for Testing Concurrent Programs"

Republished 2009 by VDM Verlag (ISBN 978-3-639-15074-2)

**Rice University**, Houston, TX

B.S. in Computer Science May 2004, magna cum laude. GPA 3.89/4.00

**Gymnasium an der Hermann-Boese-Strasse**, Bremen, Germany

Abitur 1999. Average 1.0/1.0. Ranked 4<sup>th</sup> in the state of Bremen

Computer skills: C, C++, C#, Java, Promela/SPIN, Assembly, Scheme, OCaml

## PUBLICATIONS

**"ConcJUnit: Unit Testing for Concurrent Programs".**

Ricken, M., and Cartwright, R.

*Accepted for publication in the ACM International Conference*

*Proceeding Series, ACM, 2009.*

**"Nifty Assignment: Temperature Calculator – Programming for Change".**

Nguyen, D., and Ricken, M.

*Proceedings of the Fifteenth OOPSLA Educators' Symposium. ACM, 2006.*

**"Design Patterns for Parsing".**

Nguyen, D., Ricken, M., and Wong, S.

*Proceedings of the Thirty-Sixth SIGCSE Technical Symposium on Computer Science*

*Education. ACM, 2005.*

**"Nifty Assignment: Marine Biology Simulation".**

Cheng, E., Nguyen, D., Ricken, M., and Wong, S.

*Proceedings of the Thirteenth OOPSLA Educators' Symposium. ACM, 2004.*

**PUBLICATIONS**  
(continued)

**“Nifty Assignment: Abstract Factories and the Shape Calculator”.**  
Cheng, E., Nguyen, D., Ricken, M., and Wong, S.  
*Proceedings of the Thirteenth OOPSLA Educators’ Symposium. ACM, 2004.*

**“Design Patterns for Marine Biology Simulation”.**  
Nguyen, D., Ricken, M., and Wong, S.  
*Proceedings of the Thirty-Fifth SIGCSE Technical Symposium on Computer Science Education. ACM, 2004.*

**PRESENTATIONS**

**“Object-Oriented Design Festival” Workshop.**  
Cheng, E., Nguyen, D., Ricken, M., and Wong, S.  
*Thirty-Seventh SIGCSE Technical Symposium on Computer Science Education. ACM, 2006.*

**TEACHING**

**Rice University, Houston, TX**  
*Instructor, Production Programming, Spring 2009*  
*Teaching Assistant, Production Programming, 2 semesters*  
Will hold all class lectures, design the curriculum, choose projects for student groups, and assign final grades. As teaching assistant, maintained website and solutions, helped students with Ant and Subversion, administered SourceForge accounts.

**Rice University, Houston, TX**  
*Instructor, Principles of Object-Oriented Programming II, Fall 2008*  
Held all class lectures and laboratory tutorials, modified and designed the curriculum, supervised teaching assistants, graded exams and homework assignments, and assigned final grades.

**Rice University, Houston, TX**  
*Teaching Assistant, Programming Languages, 3 semesters*  
Held several class lectures, consulted undergraduate and graduate students, and graded their exams and homework assignments. Assisted in conversion of lectures and assignments to OCaml. Maintained website and solutions, improved grading scripts. Advisors: Dr. Cartwright and Dr. Taha

**Rice University, Houston, TX**  
*Teaching Assistant, Intermediate Programming, 9 semesters*  
Held several class lectures. Presented weekly tutorials on Unix, Java, design patterns, and tools; consulted college students and graded their exams and homework assignments. Maintained website and grade database. Advisors: Dr. Cox, Dr. Nguyen and Dr. Wong

## EXPERIENCE

### **Rice University**, Houston, TX

*Software Developer, Programming Languages Team, Spring 2006 –*

Extended and maintained DrJava, an open-source cross-platform Java development environment, and made it suitable for use on large software projects.

Advisor: Dr. Cartwright

### **National Instruments**, Austin, TX

*R & D Intern, Real-Time and Embedded Systems, May 2003 – August 2003*

Modified the LabVIEW Embedded environment to generate multi-threaded C source code for different operating systems and hardware platforms. Supervisor: Andrew

Dove

### **Rice University**, Houston, TX

*Software Developer, Programming Languages Team, August 2002 – May 2003*

Developed the programming environment DrC#. Advisor: Dr. Cartwright

### **Rice University**, Houston, TX

*Research Assistant, Computer Graphics, May 2002 – December 2002*

Independently researched and implemented texture and geometry synthesis algorithms in computer graphics; developed applications for a haptic input device.

Advisor: Dr. Warren

## HONORS

Dean's Teaching Assistant (2008 – 2009)

Sid Richardson Fellow

Rice Undergraduate Scholar

Tau Beta Pi Engineering Honor Society (Officer 2003 – 2004)

Louis J. Walsh Merit Scholarship in Engineering 2001 – 2004

Rice University President's Honor Roll Fall 2000, 2002, 2003; Spring 2002, 2003

## ACTIVITIES

Rice Ambassador, Corps of Special Aides to the Governor of Texas (2001 – 2004)

Rice Computer Science Club (Vice President, 2003 – 2004)

Rice Engineering Society Council (Secretary/Treasurer, 2003 – 2004)

Rice Wine Society (Secretary/Treasurer, 2004 – 2006)

## REFERENCES

Available upon request.