

# MATHIAS GUENTER RICKEN

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## School address:

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## EDUCATION

**Rice University**, Houston, TX

Ph.D. Studies 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

**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, Perl, PHP, Python, Assembly, Delphi, Scheme, OCaml, UML, HTML, VHDL, ABEL, LabVIEW, MS Office, Adobe PageMaker, Illustrator and Photoshop, Unix, Windows

## EXPERIENCE

**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

## PUBLICATIONS

**“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.*

**“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**

*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, 7 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

**Rice University, Houston, TX**

*Teaching Assistant, Production Programming, 2 semesters*

Maintained website and solutions, helped students with Ant and Subversion, administered SourceForge accounts. Advisors: Dr. Cartwright

**HONORS**

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.