

**Dr. Peter H. Fröhlich**

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## Objective

Applied research and active development for an agile, stimulating, and responsible organization.

## Education

### **Doctor of Philosophy, Information and Computer Science, 2003**

Thesis: Component-Oriented Programming Languages: Why, What, and How?  
[University of California, Irvine](#)

### **Master of Science, Information and Computer Science, 2000**

Concentration in Computer Systems and Networking  
[University of California, Irvine](#)

### **Diplom-Informatiker, Computer Science and Mathematics, 1997**

Concentration in Technical and Industrial Applications  
[Munich University of Applied Sciences, Germany](#)

## Employment

**Fall 2008 – present: Director, [Johns Hopkins Gaming Lab](#), [The Johns Hopkins University](#).** Established the lab in cooperation with the Center for Educational Resources and the Digital Media Center. Running day-to-day operations, coordinating course offerings for students, including independent studies.

**January 2006 – present: Director of Internship Programs, [Computer Science](#), [The Johns Hopkins University](#).** Organize and coordinate internships for Computer Science students, also Career Center Liaison for the department.

**July 2005 – present: (Senior) Lecturer, [Computer Science](#), [The Johns Hopkins University](#).** Courses taught: Compilers and Interpreters, Data Structures, Foundations of Computer Science, Intermediate Programming, Introduction to Programming, Senior Design Project, Unix Systems Programming, Video Game Design.

**July 2003 – June 2005: Lecturer, [Computer Science and Engineering](#), [University of California, Riverside](#).** Courses taught: Compiler Design, Programming Languages, Software Construction, Software Engineering, Project in Computer Science; co-taught graduate-level seminar on programming languages with Prof. Dr. [Thomas Payne](#).

**October 2002 – June 2003: Lecturer and Research Programmer, [Computer Science and Engineering](#), [University of California, Riverside](#).** Courses taught: Compiler Design, Data Structures and Algorithms, Software Construction, Software Engineering. Worked with Prof. Dr. [Brett Fleisch](#) on mobile code security.

**September 1998 – September 2002: Research Associate, [Information and Computer Science](#), [University of California, Irvine](#).** Worked with Prof. Dr. [Michael Franz](#) in the Lagoon project on component-oriented programming languages and in the TRANSPROSE project on infrastructures for mobile code.

**July 1998 – August 1998: Consultant and Software Engineer, COCOSS GbR, Munich, Germany,** Development Processes, Internet and Databases.

**January 1998 – June 1998: Visiting Researcher, Information and Computer Science, University of California, Irvine.** Worked with Prof. Dr. [Michael Franz](#) in the Lagoon project on component-oriented programming languages.

**March 1997 – December 1997: Software Engineer, NEXUS informatics GmbH, Munich, Germany,** Machine Control, Newsroom Equipment and Systems.

## Professional Activities

Member of the [Association for Computing Machinery \(ACM\)](#) and the [Institute of Electrical and Electronics Engineers \(IEEE\)](#) since 1998.

Member of the [Gesellschaft für Informatik \(GI, German Association for Computer Science\)](#) and the [Verein Deutscher Ingenieure \(VDI, Association of German Engineers\)](#) since 1992.

## Selected Publications

**Playing Together: Establishing an Interdisciplinary, Interinstitutional Gaming Initiative** (with [Michael Reese](#) and [Joan Freedman](#)). Proceedings of the [New Media Consortium](#) Annual Conference, June 2009.

**Secure Paper-Assisted Voting System with OMR-Based Counting and Open Verification Scheme** (with [Anwar Adi](#), [Wael Adi](#), and [Martin Schüler](#)). Proceedings of the [International Symposium on System and Information Security](#), Sao Paulo, Brazil, November 2006.

**Supporting Software Composition at the Programming-Language Level** (with [Michael Franz](#) and [Andreas Gal](#)). *Science of Computer Programming, Special Issue on New Software Composition Concepts*, Volume 56, Numbers 1–2, Pages 41–57, April 2005.

**Making Mobile Code Both Safe and Efficient** (with [Wolfram Amme](#), [Matthew Beers](#), [Niall Dalton](#), [Michael Franz](#), [Vivek Haldar](#), [Andreas Hartmann](#), [Peter S. Housel](#), [Fermin Reig](#), [Jeffery von Ronne](#), [Christian H. Stork](#), and [Sergiy Zhenochin](#)). In [J. Lala](#) (Ed.), *Foundations of Intrusion Tolerant Systems*, IEEE Computer Society Press, December 2003.

**Inheritance Decomposed.** In [Andrew Black](#), [Erik Ernst](#), [Peter Grogono](#), and [Markku Sakkinen](#) (Eds.), *Proceedings of The Inheritance Workshop at ECOOP*, Malaga, Spain, June 2002. Technical Report 12-2002, Information Technology Research Institute (ITRI), University of Jyväskylä, Finland, June 2002.

**Stand-Alone Messages: A Step Towards Component-Oriented Programming Languages** (with [Michael Franz](#)). In [Jürg Gutknecht](#) and [Wolfgang Weck](#) (Eds.), *Modular Programming Languages* (Proceedings of the Fifth Joint Modular Languages Conference, Zurich, Switzerland, September 2000). *Lecture Notes in Computer Science*, Volume 1891, pp. 90–103, Springer-Verlag, September 2000.

## References

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