

## Marlon Pierce

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**Research Interests:** Developing tools for computational science based on emerging Internet and computational Grid technologies.

### Education

- Ph.D. in Physics, December 1998, Florida State University, under the direction of Professor E. Manousakis. Thesis titled "Path Integral Monte Carlo Simulation of Helium Adsorbed on Graphite".
- B.S. in Physics, Suma cum laude, 1990, Louisiana Tech University

### Professional Appointments

**2001-Present:** Senior Research Associate, Community Grids Lab, Indiana University.  
**1999-2001:** Information and Communication/Enabling Technologies On-Site Lead, Aeronautical Systems Center Major Shared Resource Center for the Department of Defense High Performance Computing Modernization Program. **1999:** Postdoctoral Researcher, Florida State University

### Selected Publications

1. Marlon E. Pierce, Geoffrey Fox, Choon-Han Youn, Stephen Mock, Kurt Mueller, Ozgur Balsoy: Interoperable Web services for computational portals. SC 2002: 1-12.
2. Marlon E. Pierce, Choonhan Youn, Geoffrey Fox: Interacting Data Services for Distributed Earthquake Modeling. International Conference on Computational Science 2003: 863-872.
3. Geoffrey Fox, Shrideep Pallickara, Marlon Pierce, Harshawardhan Gadgil, Building Messaging Substrates for Web and Grid Applications. Accepted for publication in special Issue on *Scientific Applications of Grid Computing* in Philosophical Transactions of the Royal Society of London 2005.
4. Mehmet Aktas, Galip Aydin, Andrea Donnellan, Geoffrey Fox, Robert Granat , Lisa Grant, Greg Lyzenga, Dennis McLeod, Shrideep Pallickara, Jay Parker, Marlon Pierce, John Rundle, Ahmet Sayar, and Terry Tullis iSERVO: Implementing the International Solid Earth Research Virtual Observatory by Integrating Computational Grid and Geographical Information Web Services Technical Report December 2004, To be published in Special Issue of Pure and Applied Geophysics ( PAGEOPH ) for Beijing ACES Meeting July 2004.

### Summary of Research Interests:

Pierce's research interests are in the overlap of computational science and Web technology. His work includes building component-based computational Web portals and designing services for managing earthquake science applications. He is also leading efforts to integrate Geographical Information Systems services with scientific computing.