

## **Eric M. Field**

School of Architecture, University of Virginia

136 Campbell Hall  
emfield@virginia.edu

### **Education**

University of Virginia, Architecture, M.Arch, 2001

Massachusetts Institute of Technology, Architecture, BSAD, 1994

### **Academic and Professional Experience**

Head of Applied and Advanced Technologies; Lecturer, Department of Architecture;  
Director and Founder of the *Insight Lab*, 2008 – Present  
University of Virginia School of Architecture

Teaching Resources Coordinator (Applied Information Technology), 2007-2008  
University of Virginia School of Architecture

Lecturer and Information Technology Specialist, 1995-2007  
University of Virginia School of Architecture

Independent Architectural Technology Consultant, Charlottesville, VA, 1994-2004

Architect & Digital Master Plan Coordinator, 1994-1996  
Office of the University Architect, University of Virginia

Research Assistant, MIT Department of Architecture and Planning, 1992-1994

### **Areas of Expertise**

Design Informatics

Analytic and Design Modeling and Simulation

Information Design

Analytic CAD / Building Information Modeling

Strategic Applications of Information Technology

### **Publications**

*The Smart Thermostat: Using Wireless Sensors to Increase Comfort and Save Energy*,  
Jiakang Lu, Tamim Sookoor, Gao Ge, Vijay Srinivasan, Brian Holben, John Stankovic,  
Eric Field, Kamin Whitehouse; submitted for consideration to IPSN 2010, the 9<sup>th</sup>  
ACM/IEEE International Conference on Information Processing in Sensor Networks,  
2009

*The Central Core Structural System, A three-dimensional analysis of the Five-Story  
Pagoda of Hōryūji*, in Hōryūji Reconsidered, Dorothy C. Wong and Eric M. Field, eds.,  
Cambridge Scholars Publishing, 2008

*Performative Modeling and Versioning: Experimenting with Performance Driven Design  
at the University of Virginia*, form•Z Joint Study Program Report, Eric M. Field with  
contributions by Gregg Pasquarelli and Christopher Sharples, SHoP Architects, Chris  
Yessios, ed., December 2004

*A Photographic Analysis of the Kentucky Coffee trees on the South Lawn at Thomas Jefferson's Poplar Forest*, Reiley & Associates and Eric M. Field, Thomas Jefferson Memorial Foundation, Forest, VA, 2002

### **Exhibitions**

*Explorations in CNC Fabrication*; Exhibit, University of Virginia School of Architecture, Charlottesville, VA, April 2006

*On the Job: Design and the American Office*, Exhibit, National Building Museum, Washington D.C. [contributions, November 2000 – August 2001]

### **Current Projects**

*UVA Bay Game*, 2009 - present. A multidisciplinary team developing a systems-modeling game simulating the roles of stakeholders (farmers, watermen, developers, citizens, and policymakers) in the Chesapeake Bay watershed. This work is using large-scale simulations of environmental, economic, and human process models to test outcomes in a game-like interface.

*The Insight Lab*, UVA School of Architecture, 2009 - present. Founder and Director of multidisciplinary research lab for Design Informatics and Visualization. Target technologies include energy and daylighting performance applications, computational fluid dynamics, systems modeling, building information modeling, GIS, visualization, interfaces and information graphics, and visual collaboration technologies.

*The SEED Network*, 2009 – present. Member and lead developer of website and information engine for Social / Economic / Environmental Design, an international social design advocacy group impacting community-based design. The network engages design professionals directly with the local community to advocate for a trusted and more effective design process and outcome.

ecoMOD, 2008-present - a multidisciplinary design-build project integrating energy conscious design and energy saving technology into construction of affordable housing prototypes. Specific contributions include directing / teaching / developing whole-house building simulation modeling, and consulting on passive energy design.

*Tools for Teaching Energy Flows*, UVA School of Architecture, 1998-present. Bringing new design and computational analysis and simulation tools to teach, integrate, and use the principles of energy performance, lighting, and passive design in buildings.