

## PH.D. THESES CHAired BY ALICE M. AGOGINO

1.	1988/89	<a href="#">Pramod Jain</a>	"A Vector Quantization Multistart Method for Global Optimization"
2.	1989/90	<a href="#">Fariborz Nadi</a>	"Modeling of Complex Manufacturing Processes via Integration of Influence Diagrams and Neural Networks"
3.	1989/90	<a href="#">Robert K. Paasch</a>	"Management of Uncertainty in Sensor Based Diagnostic Expert Systems"
4.	1989/90	<a href="#">Jonathan Cagan</a>	"Innovative Design of Mechanical Structures from First Principles"
5.	1990/91	<a href="#">Ming-Lei Tseng</a>	"Integrating Neural Networks with Influence Diagrams for Multiple Sensor Diagnostic Systems"
6.	1990/91	<a href="#">Nestor Michelena</a>	<a href="#">"Monotonic Influence Diagrams; Application to Optimal and Robust Design"</a>
7.	1991/92	Jean-Michel Nataf	"Equation-based Automatic Modeling Applied to Thermal Systems"
8.	1991/92	<a href="#">Young-Jin Kim</a>	"Uncertainty Propagation in Intelligent Sensor Validation"
9.	1991/92	<a href="#">Eric Schendel, M.D.</a>	"Cascading Synthetic Node Inference: Cascading Bayesian Inference Employing Synthetic Intermediate Nodes" (Bioengineering)
10.	1993/94	<a href="#">Stephen R. Bradley</a>	"Design Optimization under Resource Constraints"
11.	1993/94	<a href="#">Cassandra T. Rogers</a>	"Expert Systems Approach to Regional Evaluation of Debris Flow Hazard" (Co-chaired with Nicholas Sitar), Engineering Science - Civil Engineering
12.	1995/96	<a href="#">William H. Wood III</a>	"Supplying Concurrent Engineering Information to the Designer: The Conceptual Design Information Server"
13.	1995/96	<a href="#">Satnam S. Alag</a>	"A Bayesian Decision- Theoretical Framework for Real-Time Monitoring and Diagnosis of Complex Systems: Theory and Application" <a href="#">Abstract</a>
14.	1995/96	<a href="#">Kai Goebel</a>	"Management of Uncertainty in Monitoring and Diagnosis of Mechanical Systems Using Fuzzy Techniques" <a href="#">Abstract</a>

15.	1996/97	<a href="#">Sherry Hsi</a>	<a href="#">"Facilitating Knowledge Integration in Science through Electronic Discussion: the Multimedia Forum Kiosk"</a>
16.	1996/97	Balaguruna (Bala) Chidambaram	"Catalog-Based Customization" <a href="#">Abstract</a>
17.	1996/97	<a href="#">Andy Dong</a>	"The Management of Design Information: A Decision-Analytic Approach" <a href="#">Abstract</a>
18.	1997/98	<a href="#">Anil Varma</a>	"Intelligent Distributed Design Systems: A Machine-Learning Approach"
19.	2000/2001	<a href="#">Xio-Ping (Susan) Su</a>	<a href="#">"Compliant-Leverage Mechanism Design for MEMS Applications"</a>
20.	2001/2002	<a href="#">Ann McKenna</a>	"Designing Instruction to Support Mechanical Reasoning: Three Alternatives in the Simple Machines Learning Environment" <a href="#">Abstract</a>
21.	2001/2002	<a href="#">Jiangxin Wang</a>	"Equipment and Process Modeling and Diagnostics in Semiconductor Manufacturing" <a href="#">Dissertation (1.9 mb)</a>
22.	2001/2002	Ning-Ning Zhou	"Simulation and Synthesis of MicroElectroMechanical Systems (MEMS)" <a href="#">Abstract</a>
23.	2004/2005	<a href="#">Shuang Song</a>	<a href="#">"Shared Understanding and Information Seeking, Sharing and Sketching in the New Product Design Process"</a>
24.	2004/2005	<a href="#">Raffi Kamalian</a>	<a href="#">"Evolutionary Synthesis of MEMS Devices"</a>
25.	2004/2005	<a href="#">Jia-Long Wu</a>	<a href="#">"Unified Language System for Engineering Design (ULSED): A Framework and Automation Tools for Better Design Information Retrieval"</a>
26.	2005/2006	<a href="#">Ying Zhang</a>	<a href="#">"MEMS Design Synthesis Based on Hybrid Evolutionary Computation"</a>
27.	2006/2007	<a href="#">Jessica Granderson</a>	<a href="#">"Human-centered Sensor-based Bayesian Control: Increased energy efficiency and user satisfaction in commercial lighting"</a>
28.	2007/2008	<a href="#">Jonothan Henry Grenville Hey</a>	<a href="#">"Effective Framing in Design"; Thesis Seminar slides.</a>
29.	2007/2008	<a href="#">Corie Lynn Cobb</a>	<a href="#">"Case-based Reasoning for MEMS Design Synthesis"</a>
30.	2008/2009	<a href="#">Yao-Jung Wen</a>	<a href="#">"Wireless Sensor and Actuator Networks for Lighting Energy Efficiency and User Satisfaction"</a>

31.	2008/2009	<a href="#">Jaspal Sandhu</a>	<a href="#">"Serial Hanging Out in Mongolia: Information, Design and Global Health"</a>
32.	2009/2010	<a href="#">Catherine Newman</a>	"Information Scaffolding: Applications to Technical Animation"
33.	2012/2013	<a href="#">Celeste Roschuni</a>	"Communication in the Design Process: Applying Human-Centered Design Tactics"
34.	2012/2013	<a href="#">Lora Oehlberg</a>	<a href="#">"Information Sharing Tools for Collaborative Human-Centered Design Teams"</a>
35.	2012/2013	<a href="#">Yael Valerie Perez</a>	<a href="#">"Global Architects Meet the Place - Bridging the Gap through Information and Communication Technology"</a> , Co-advised with Prof. Yehuda Kalay (Architecture), Spring 2013
36.	2012/2013	<a href="#">Ryan Shelby</a>	<a href="#">"Co-Designing Sustainable Communities: The Identification and Incorporation of Social Performance Metrics in Native American Sustainable Housing and Renewable Energy System Design"</a> , Spring 2013
37.	2012/2013	<a href="#">Sohyeong Kim</a>	"Open Innovation Ecosystem: Chez Panisse Case Study," Summer 2013
38.	2012/2013	<a href="#">Anna Pereira</a>	<a href="#">"Computer Input Devices: Design for Well-Being and Productivity."</a> Co-advised with Prof. David M. Rempel (UCB School of Public Health; UC San Francisco Medical School), Summer 2013
39.	2013/2014	<a href="#">Jennifer Wang</a>	"Engineering Learning: Cross-Community Design, Development, and Implementation of Engineering Design Challenges at a Science Center", Spring 2014
40.	2013/2014	<a href="#">Sara Samiphak</a>	<a href="#">"Liver Fluke Infection and Fish Consumption in Khon Kaen, Thailand: A Case Study on Negotiating the Middle Ground between Eastern &amp; Western Medicine"</a> , Spring 2014
41.	2013/2014	<a href="#">Mark Fuge</a>	"Collaborative Design Informatics: Leveraging Big Data to Create Better Designs", Summer 2014
42.	2014/2015	Kimberly Lau	"Diversity in Design Teams: An Investigation of Learning Styles and their Impact on Team Performance and Innovation", Target: Summer 2015

Last updated: 6 July 2015