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Title: **Intel PhD Fellowship Winners - 2010**

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### **Intel PhD Fellowship Winners - 2010**

Intel drives and participates in a wide array of education-related programs worldwide whose goals are to improve the quality of education and train students to be future technology leaders themselves. The next generation Intel "Rock Stars" could come from one of these programs. The Intel PhD Fellowship program focuses on research in Intel's technical areas; Hardware Systems Technology and Design, Software Technology and Design, and Semiconductor Technology and Manufacturing. In 2010, 27 fellowships were awarded. This is a very prestigious award, and winning students are recognized as being tops in their areas of research.

Intel PhD Fellowship Winners

**Ms. Jessy Baker**, University of California, Berkeley



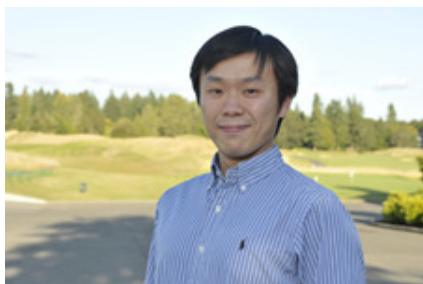
Thesis: Nanorod Photovoltaics: Self-assembly, Epitaxial junction formation, & Soft-lithography electrodes

**Mr. Samer Barakat**, Purdue University



Thesis: Interactive Visual Analysis of Ultrascale Flow Phenomena on Manycore Architectures

**Mr. Lei Bi**, Massachusetts Institute of Technology



Thesis: Magneto-optical Materials and Devices for on-chip Integrated Optical Isolator

**Mr. Michael Buettner**, University of Washington



Thesis: Energy Efficient Computing and Network Protocols for Wirelessly Powered Devices

## Applications

**Mr. Vladimir Bychkovsky**, Massachusetts Institute of Technology

Thesis: Automatic and semi-automatic methods for photograph selection and adjustment

**Mr. Chia-Ming Chang**, Stanford University

Thesis: Integrated silicon photonics for optical interconnects and sensing applications

**Ms. Marshini Chetty**, Georgia Tech

Thesis: Surfacing Invisible Aspects of Domestic Networks to Affect Engagement with Infrastructure

**Mr. Andrew DeOrio**, University of Michigan

Thesis: Lifetime Correctness for Modern Multicore Processors

**Mr. Elliott Fleming**, Massachusetts Institute of Technology

Thesis: System architecture and high level synthesis

**Mr. Julian Guzman**, University of California, Berkeley

Thesis: Structure-Property Relationships of Ge and Ge-Alloy Nanoclusters Embedded in Silica

**Mr. Jose Joao**, University of Texas at Austin**Mr. Eric Keller**, Princeton



Thesis: Improving Performance of Parallel Code on Asymmetric-CMPs with Combined Hardware-Software Solutions

**Mr. Donnie Kim**, UCLA



Thesis: A Router Hypervisor for Hosted Virtual Networks

**Mr. Calvin King, Jr.**, Georgia Tech



Thesis: From positions to semantic locations: places we go and paths we take

**Mr. Ariel Kleiner**, University of California, Berkeley



Thesis: Thermal Management of Three-dimensional Integrated Circuits Using Inter-layer Liquid Cooling

**Mr. Lucian Leahu**, Cornell University



Thesis: Learning Rich, Efficient Models Based on Large Quantities of Data

**Mr. Michael Lentine**, Stanford University



Thesis: Rethinking the Role of Machine Representations in HCI

**Mr. Mark Palatucci**, Carnegie Mellon University



Thesis: Scalable Techniques for the Physical Simulation of Fluids and Solids.



Thesis: Learning Methods for Thought Recognition

**Mr. Jonathan Ragan-Kelley**, Massachusetts Institute of Technology



Thesis: A braided parallel programming system for real-time graphics and heterogeneous applications

**Mr. Arun Raman**, Princeton



Thesis: Scalable Parallelism Extraction and Efficient Execution

**Mr. Olatunji Ruwase**, Carnegie Mellon University



Thesis: Dynamic binary analysis for guarding OS kernels from errors in unmodified device driver binaries

**Ms. Rebecca Schaevitz**, Stanford University



Thesis: Material properties of SiGe/Ge quantum wells for optoelectronic modulation

**Mr. Shreyas Sen**, Georgia Tech



Thesis: Process Variation Tolerant Virtually Zero Margin Wireless Circuits & Systems for Low Power Operation

**Mr. Gabriel Takacs**, Stanford University



Thesis: Mobile Augmented Reality

**Mr. Steven Tin**, Cornell University

**Mr. Eitan Yaakobi**, University of California, San Diego



Thesis: Applications on beta-emitting radioisotope thin films for micropower and lithography



Thesis: Coding for Flash Memories

**Mr. Shuang Zhao**, Cornell University



Thesis: Scalable Interactive Rendering