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# Intel 2012 Doctoral Student Honor Awardees

## Recognizing future technology leaders



### Intel Announces the 2012 Doctoral Student Honor Awardees

The Intel Doctoral Student Honor Programme awards fellowships to exceptional PhD candidates pursuing leading-edge innovation in fields related to Intel's business and research interests in the European Union, Switzerland, and Russia. The goal of the programme is to advance innovation in key areas of technology, as well as develop a pipeline of world-class technical talent for Intel's future workforce and the global knowledge-based economy. The selection of this year's recipients was a highly competitive process with many outstanding quality applicants across several universities and exciting areas of research. For the 2012-2013 academic cycle, twenty-five finalists were selected from a pool of sixty-six applicants across sixteen universities. Congratulations to all of this year's awardees!
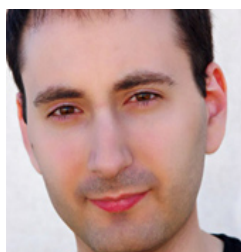


**Jose Maria Arnau,** U. Polit. De Catalunya

Thesis: Energy-Efficient Mobile GPU Systems for Smartphones and Tablets



**Jeronimo Castrillon**, RWTH Aachen

Thesis: Methodologies and Algorithms for Efficient Execution of Multiple Applications on Heterogeneous MPSoCs



**Jose David Domenech Gomez**, U. Polit. De Valencia

Thesis: Apodized Coupled Resonator Optical Waveguides: Theory, Design and Characterization



**Jesus Friginal Lopez**, U. Polit. De Valencia

Thesis: An Experimental Methodology to Evaluate the Resilience of Ad Hoc Routing Protocols



**Shrikanth Ganapathy**, U. Polit. De Catalunya

Thesis: Reliability in the Face of Variability in Nanometer Caches



**Carmen Garcia**, U. Polit. De Catalunya

Thesis: Future Technologies and New Computing Paradigms



**Sven Gehring**, Saarland University

Thesis: Interaction with Media Facades



**Manuel Gorius**, Saarland University

Thesis: Adaptive Real-Time Internet Media Transport: Capacity-Approaching Streaming Over Open Internet



**Alexander Heinecke**, TU Munchen

Thesis: Multi- and Manycore Architectures in Advanced Scientific Computing



**Alec Jacobson**, ETH Zurich

Thesis: Algorithms and Interfaces for Real-Time Deformation of 2D and 3D Shapes



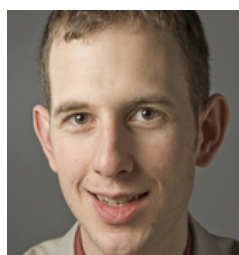**Gareth Jones,** Imperial College London

Thesis: Performance Analysis



**Daniel Kelly,** Imperial College London

Thesis: Disaggregation of



**Pejman Lotfi Kamran**, Ecole Polytechnique Federale de Lausanne (EPFL)



**Pascal Meinerzhagen**, Ecole Polytechnique Federale de Lausanne



**Bojan Milosevic**, University of Bologna

Thesis: Energy Efficient Body

Thesis: Performance Analysis with Fluid Queues

Thesis: Disaggregation of Low Temporal Resolution Smart Meter Data

Thesis: Scale Out Processors

Thesis: Alternative Approaches toward Area- and Energy-Efficient Embedded Memories

Thesis: Energy Efficient Body Area Networks for Motion Tracking and Analysis

**Bharghava Rajaram,** University of Edinburgh

Thesis: Redefining Atomicity for Performance and Portability

**Pablo Reble,** RWTH Aachen

Thesis: Design Patterns for Scalable Synchronization of Manycore Processors

**Michele Rossi,** University of Bologna

Thesis: Electronic Interfaces for Nanosensors

**Lisa Ruttledge,** University College Dublin

Thesis: Wind Power: Enhancing Short-Term Power System Flexibility

**Reinhard Schneider,** TU Munchen

Thesis: Architecture-Aware Co-Design of Automotive Software Systems: A Cyber-Physical Systems Approach
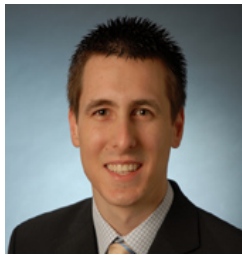
**Lars Schor,** ETH Zurich

Thesis: Programming and Optimization Environment for Predictable and Efficient Embedded Manycore Systems

**Aonghus Shortt,** University College Dublin

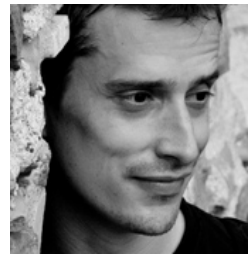Thesis: Quantifying and Responding to Power System Variability

**Evgeny Strekalovskiy,** TU Munchen

Thesis: Convex Optimization Methods for Computer Vision

**Alejandro Valero,** U. Polit. De Valencia

Thesis: Energy-Aware Hybrid SRAM/eDRAM Caches and Architectural Strategies

**Cristian Zamfir,** Ecole Polytechnique Federale de Lausanne

Thesis: Execution Synthesis: A Technique for Automated Software Debugging

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