

Kaustuv De Biswas

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Current

Co-Founder / Managing Partner at DPLAY

2010 - Present

As the managing partner of dplay, Kaustuv guides the development of the organization, its strategies, and the dplay initiative, which seeks to enable state of the art technologies in the domain of architecture and product design.

TED Fellow at TED CONFERENCES

2010 - Present

One of the 19 TED Fellows (2011) from around the world. The program brings together world-changing innovators from around the globe and amplifies the impact of their remarkable projects and activities.

Professional

Research Associate at APPLIED RESEARCH GROUP, BENTLEY SYSTEMS

2005 - 2010

At Bentley Systems, Kaustuv was instrumental in integrating environmental performance analysis features with Generative Components, a leading parametric modeling tool. He has been a consultant/advisor to several international architectural practices like Morphosis, NormanFosters, TVS, dECOi, Portman and Hoberman Associates integrating parametric modeling in their work flow. He has also taught parametric workshops and seminars in leading universities/schools such as MIT, Harvard, Architectural Association (London), Columbia University and Georgia Tech introducing advanced computational techniques to design students.

Design Consultant, dECOi

2010

Lead role in developing computational infrastructures for non-standard form-finding for a carbon-fiber penthouse near Tate Modern, London - integrating environmental, structural and architectural parameters in a seamless, synchronized and parallel software architecture. The project radicalizes process-form-material logics with significant gains in corresponding efficiencies.

Lecturer, THE OHIO STATE UNIVERSITY, KNOWLTON SCHOOL OF ARCHITECTURE

2009

Taught computation courses and seminars in the graduate school with the aim of introducing designers computational techniques in design exploration.

Architect, BUILDING RESEARCH AND MANAGEMENT SERVICES

2004

Designed and implemented a large (500+units) low income group housing project using innovative construction technologies in West Bengal.

Research Assistant, JADAVPUR UNIVERSITY, CENTER FOR ENERGY EFFICIENT BUILT ENV.

2003

Designed and programmed interactive design analysis software which was successfully implemented to minimize solar gain of a large housing project in Calcutta, India

Associate, THE TRANSFORMATION GROUP

1999-2003

At TTG, Kaustuv was involved in several architectural projects ranging from analysis (Landuse of Salt Lake City) to design competition (2nd Prize for Star Theater Reconstruction, Kolkata) to documentation (Charles Correa's City Center, Kolkata)

Education

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Ph.D. Candidate in Architecture

June 2011

Focus: Developing innovative technologies for design and analysis in the domain of architecture and product design.

Master of Science in Architectural Studies

June 2006

Focus: Artificial Intelligence in Design.

JADAVPUR UNIVERSITY

Bachelor of Architecture

July 2003

Focus: Generation of Bio-climatically High Performance Architectural Primitives

Teaching

Instructor , Design Exploration using Programming : Graduate Elective Course, OSU	Spring 09
Co-Instructor , "Material Computation": Graduate Elective Course, OSU	Spring 09
Instructor , Programming in Graphical Environments : Seminar, OSU	Winter 09
Co-Instructor , Spacefighters: Urban Design Game Workshop, MIT	Fall 06
Teaching Assistant , Architectural Motion Graphics : MIT	Fall 09
Teaching Assistant , Architectural Design Studio - Level 3 : MIT	Fall 09
Teaching Assistant , Architectural Design Studio - Level 3 : MIT	Spring 08
Teaching Assistant , Introduction to Design Computation : MIT	Fall 07

Publications

Jun2008, K DeBiswas, S Shirazi, "**K9 Computation - Essay in Code**", Thresholds33, MIT
May2008, K DeBiswas, S Kim, "**Urban Form Making through Agent Interaction**", AAMAS 08
Mar2008, K DeBiswas, S Kim, "**Morphing NonCommensurable Perspectives Using MultiAgency**", EMCSR 08
July-Aug 2004, **Bio-Climatic Residences** - "Architecture and Design" Vol XXI No4 Pg 112
Nov2003, **Thesis** Published in the national magazine "Indian Architect & Builder", Vol17 (03), Pg. 42-47
May2001, **Responding to a Primitive Context** - "Indian Architect & Builder", Vol14 (09), Pg. 34-36

Presentations | Workshops

Jun 2010, NSF Workshop: **Visual and spatial reasoning for design creativity**, Aix-en-Provence, France
Nov 2009, Work exhibited at **Eco-Redux : Remedies for a Dying Planet**, New York, USA
Mar 2009, Presented/Instructed at the **Smart-Geometry Workshop-Conference 2009**, San Francisco, USA
Oct 2008, Instructor at Parametric Associative Modeling & Environmental Analysis workshop, **ACADIA 2008**
Sep 2008, Interactive Art Installation, **Venice Biennale 2008**
May 2008, **BE 2008 Applied Research Seminar**, Baltimore, USA
Feb 2008, Instructor at **SmartGeometry Workshop-Conference 2008** held at Munich, Germany.
Jun 2007, Instructor at the **BE Conference** (Bentley Systems), London, UK
Jun 2007, **BE 2007 Research Seminar**, London, UK
Mar2007, Spacefighter Game Installation, **Rotterdam Biennale 2007**
Jan 2007, Instructor at **SmartGeometry Workshop-Conference 2006**, New York, NY, USA
Mar 2006, Instructor at the **Parametric Modeling Workshop at Columbia University**, NY, USA.
Mar 2006, Instructor at the **Generative Components Workshop at Harvard University**, Cambridge, USA.
Jan 2006, Presented/Instructed at the **SmartGeometry Workshop-Conference 2006** held at Cambridge, UK.
Jan 2006, Instructor at the **Scripting Workshop at the Architectural Association** AA School of Architecture, UK.
Nov 2005, Instructor at the **Parametric Modeling Workshop at MIT**, Cambridge, USA.
Aug 2005, Instructor at the **Parametric Modeling Workshop at GeorgiaTech**, Atlanta, USA.

Fellowships

Prafulla Chandra Mukherjee Foundation Scholarship	2009-10
Bentley Systems Scholarship	2006-10
Inlaks Foundation Scholarship	2004-06
W Danforth Compton Memorial Fellowship Award	2004-05

Associations

Fellow, TED	http://ted.com	2010
Core, MIT India Reading Group	http://india.mit.edu	2009
Director, MIT Career Fair	http://career-fair.mit.edu	2008
Core, SmartGeometry Group	http://smartgeometry.com	2006
President, MIT India Student Association	http://web.mit.edu/sangam/www/	2005
Member, Indian Institute of Architects	http://www.iia-india.org	2004