

# Sushant Verma

## [deCODING COMPLEXITY] & adaptive [skins]

11<sup>TH</sup> December 2013 - 10.30  
SALA CONSILIARE  
Università degli Studi di Brescia  
Via Branze, 38

Project REA - Cariplo Foundation

Architectural Composition 2 and Workshop  
Marina Montuori, Barbara Angi  
Computer Aided Drawing and Laboratory of Architectural Drawing  
Massimo De Paoli

Sushant Verma (M.Arch. Em.Tech. – AA London, B.Arch. SSAA New Delhi, MCoA India) is a London based architect, computational designer, researcher and educator currently working at Zaha Hadid Architects, London. **He is a co-founder of rat[LAB], a research cell & consultancy based in UK, India & Greece, and currently serves as a researcher developing new ideas for design & computational research.**

He serves as an associate editor for Arch20 (based in Virginia, USA), delivering a critical perspective on parametric design, emergence and complexity in architecture. He is also a visiting Lecturer & Thesis tutor for University of Brescia, Italy. He has previously worked at RoboFold London, focusing on development of advanced fabrication and software systems for use of robotics in architectural fabrication. He has also worked in New Delhi with a number of renowned architecture and urbanism firms and his work has been published and exhibited internationally in the United Kingdom, Europe and India. He is one of the recipients of the prestigious MAK-Schindler Residency Program Award (Los Angeles/Vienna) awarded to emerging international artists and architects.

His current research interests are focused on relationship studies between simplicity and complexity in architecture, continuing his published work on Plectic Architecture. His parallel on-going research focuses on 'super-complexity' and parametric design in architecture with digital-analogue fabrication and computation as primary aspects as well as computational tool development for optimizing architectural processes.

### About rat[LAB]

rat[LAB] is an independent research cell based in London (UK), Bangalore (India) & Thessaloniki (Greece) to facilitate advanced research in architecture, focussed on integration of technology and design. The research agendas broadly focus on the use of computational design in architecture and urbanism, with subset focus on material computation, generative design, algorithmic design and digital fabrication.

The research cell functions as a global collaborative and multidisciplinary laboratory facilitating design research that leads to novel spatial tectonics and smart built environments. We offer global collaborations to architecture and urban design firms to develop systemic models using advanced computational techniques and carry out project-specific or agenda-specific research in all fields of design.



Università di Pavia  
Corso di laurea magistrale in Ingegneria Edile-Architettura



Università degli Studi di Brescia  
Corso di laurea magistrale in Ingegneria Edile-Architettura



Politecnico di Milano - Polo di Piacenza  
Scuola di Architettura e Società



fondazione  
cariplo

rat[LAB]  
RESEARCH IN ARCHITECTURE & TECHNOLOGY