

CURRICULUM VITAE

THOMAS SCHROEPFER

Professor and Associate Head of Pillar, Architecture and Sustainable Design
Singapore University of Technology and Design

Registered Architect, Germany

EDUCATION

- | | |
|------|---|
| 2004 | Harvard University Graduate School of Design
Doctor of Design
Dissertation: "Relational Geographies of Building Practice"
Awards: Hochtief Scholarship, 2001 - 2004 |
| 2000 | Harvard University Graduate School of Design
Master of Architecture with Distinction
Awards: Hochtief Scholarship, 1998 - 2000 |
| 1995 | University of the Arts Berlin
<i>Diplom-Ingenieur Architektur, Summa Cum Laude</i> |
| 1995 | The Cooper Union
Bachelor of Architecture
Awards: The Cooper Union Full-Tuition Scholarship, 1993 - 1995 |

ACADEMIC AND PROFESSIONAL APPOINTMENTS

Academic Appointments

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|-------------|--|
| 2011 - | Singapore University of Technology and Design
Professor and Associate Head of Pillar, Architecture and Sustainable Design
Co-Director, SUTD-JTC I ³ Centre
Director, Advanced Architecture Laboratory |
| 2004 - 2011 | Harvard University Graduate School of Design
Associate Professor of Architecture, 2008 - 2011
Assistant Professor of Architecture, 2005 - 2008
Design Critic in Architecture, 2004 – 2005 |

Visiting Academic Appointments

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| Fall 2011 | Massachusetts Institute of Technology
Visiting Professor of Architecture |
| Fall 2009 | National University of Singapore
Visiting Professor of Architecture |
| Spring 2009 | Swiss Federal Institute of Technology Lausanne
Visiting Professor of Architecture |

Professional Appointments

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|-------------|---|
| 1997 - 2004 | Hochtief Group Germany
Project Architect and Project Lead, Research and Development |
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1995 - 1997 **Studio Daniel Libeskind**
Architectural Designer

PROFESSIONAL AFFILIATIONS

2004 - **Chamber of Architects Baden-Württemberg, Germany**
Registered Architect

2004 - **German Academic International Network (GAIN)**
Member

1998 - 2004 **Chamber of Architects Berlin, Germany**
Registered Architect

SELECTED ACADEMIC AND PROFESSIONAL AWARDS AND RECOGNITIONS

Recipient. World Architecture Festival High Commendation 2016 for '*The Future of Us' Exhibition Pavilion*, Gardens by the Bay, Singapore.

Recipient. Singapore Structural Steel Excellence Trophy Award 2016 for '*The Future of Us' Exhibition Pavilion*, Gardens by the Bay, Singapore.

Recipient. A' Design Platinum Award 2016 for '*The Future of Us' Exhibition Pavilion*, Gardens by the Bay, Singapore.

Recipient. Singapore Design Gold Award 2016 for '*The Future of Us' Exhibition Pavilion*, Gardens by the Bay, Singapore.

Recipient. SG Mark Award 2016 for '*The Future of Us' Exhibition Pavilion*, Gardens by the Bay, Singapore.

Invited Member. Singare-ETH Centre Future Cities Laboratory Steering and Management Committee. SEC-FCL is a transdisciplinary research programme focused on sustainable urbanisation on different scales with a global perspective. It is home to a community of over 100 PhD, postdoctoral and professorial researchers working on diverse themes related to future cities and environmental sustainability. Phase 2 of SEC-FCL, supported by the Singapore National Research Foundation (NRF) for a period of five years with a funding of about S\$40 million, officially started in September 2015.

Invited Jury Member. Singapore Institute of Architects (SIA) Architectural Design Awards 2013, 2014, 2015. The SIA Architectural Design Awards are the most prestigious awards implemented by SIA to promote and encourage excellence in architectural design in Singapore.

Recipient. Outstanding Education Award for Excellence in Professional Service. Singapore University of Technology and Design (SUTD), 2014.

Invited Exhibitor. *Making Sense: Intersecting Lines of Investigation in Design and Technology*. Funded by Singapore Ministry of Culture, Community and Youth (MCCY) and SUTD-MIT International Design Centre. National Design Centre Singapore. 8 - 30 November 2014.

Invited Exhibitor. Venice Biennale 2014. *Investigations in Generative Aesthetics for Tropical Urban Living*. Architecture Research and Design Project. Funded by DesignSingapore. Published in *Time Space Existence*, edited by Karlyn De Jongh (Venice: La Biennale di Venezia, 2014).

Invited Exhibitor. LUX Wellington 2014. *nZwarm*. Interactive Design Project. Funded by LUX, Goethe Institut Wellington and Philips New Zealand.

Invited Exhibitor. i Light Marina Bay Singapore 2014. *iSwarm*. Interactive Design Project. Funded by Urban Redevelopment Authority Singapore and Philips Singapore. Published in *Singapore Architect* 281, *The Singapore Engineer* March 2014, *The Straits Times* Singapore and other print, TV and online media.

1st Prize Winner. Singapore Institute of Architects (SIA) Parametric Design Ideas Competition 2013. *Dhoby Ghaut Green*. Exhibited as part of Archifest Singapore 2013 and published in *Singapore Architect* 278.

Selected Speaker. Urban Redevelopment Authority (URA) Singapore Architecture and Urban Design Excellence (AUDE) Series 2013. "Ecological Urban Architecture: Charting Experiments for Cities of the Future." Published in *Urban Redevelopment Authority Architecture and Urban Design Excellence* Issue 6, June/July 2013.

Selected Speaker. Singapore Institute of Architects. "Ecological Urban Architecture: Taking Stock of Green." 31 January 2013. In recognition of the publication of *Ecological Urban Architecture: Qualitative Approaches to Sustainability* (Basel: Birkhäuser, 2012). Published in *Singapore Architect* 270-275 as a series of six articles.

Selected Speaker and Selected International Project Entrant. Skyrise Greenery: The Singapore New Jurong Church." International Union of Architects (UIA) 24th World Congress of Architecture. *Architecture 2050*. Tokyo, Japan 2011.

Metropolis Magazine Author of New and Notable Books on Architecture, Culture and Design 2011.

Keynote Speaker. Material ConneXion, New York City, USA. "Material Design: Informing Architecture by Materiality." 1 February 2011. In recognition of the publication of the English-language edition of *Material Design: Informing Architecture by Materiality* (Basel: Birkhäuser, 2010).

Invited International Contributor. Gwangju Design Biennale. *Bamboo Oblique Pavilion*. Gwangju, Korea. 2009. Funded by Gwangju Biennale. Published in *A View on Harvard GSD Vol. 2* (Cambridge: Harvard University Graduate School of Design, 2010), *Pidgin* 10, and other print and online media. Exhibited as part of *Input_Output: Adaptive Materials and Mediated Environments* and *d3 Natural Systems* exhibition in New York City, 2010 and 2012.

Finalist. IKEA International *Future Living* Ideas Competition. Munich, Germany. 2007.

International Traveling Exhibitor. *Transurban: Charting Experiments for Cities of the Future* (based on Harvard University research project under the same title). Shown at Fundación Metrópoli, Madrid, Spain; SPACE Gallery, Seoul, Korea; Hong Kong Institute of Architects, Hong Kong, China; Tsinghua University, Beijing, China; Urban Redevelopment Authority (URA), Architecture and Design Excellence Program, Singapore; and Harvard University Graduate School of Design. Funded by Harvard University External Relations, SPACE Korea and Goethe-Institut Singapore, Hong Kong, Beijing and Madrid. 2006 - 2007.

Selected Entrant. Harvard Vision 2020. "A Walk in the Yard." Cambridge, Massachusetts, USA. 2006. Published by Harvard University in a catalogue under the same title as well as online media.

Selected Entrant. Tsunami Memorial International Design Competition. "Mimesis: The Place of the Tides." Bangkok, Thailand. 2006. Published by the competition organizers in

a catalogue under the same title and other print and online media.

Recipient. International *Designing the Highline* Competition Honorable Mention. "The Highline as a Place of Repose." New York City, USA. 2003. Published in *The New York Times* and other print and online media.

Recipient. International Union of Architects (UIA) *Architecture and Water* International Design Competition Honorable Mention. "Tidal Capsules: Four Transforming Structures for Lisbon's Praça do Comércio." Published by UIA in a catalogue under the same title and exhibited at UIA 21st World Congress of Architecture in Berlin, 2002.

Recipient. Hochtief Scholarship for Doctoral Studies at the Harvard University Graduate School of Design. 2001-2004.

1st Prize Winner. *Steglitz Housing* Design Competition, Berlin, Germany.

Recipient. Graduation distinction for studies leading to the degree of Master of Architecture. Harvard University Graduate School of Design. 2000.

Recipient. Hochtief Scholarship for Graduate Studies at the Harvard University Graduate School of Design. 1998-2000.

Member of 1st Prize-Winning Team. *Victoria and Albert Museum Extension* International Design Competition, London, UK. Studio Daniel Libeskind. 1996. Published in various architecture journals, including *El Croquis* 80, and books on the work of Studio Daniel Libeskind.

Member of 2nd Prize-Winning Team. *National Gallery of Ireland Extension* International Design Competition, Dublin, Ireland. Studio Daniel Libeskind. 1996. Published in various architecture journals, including *El Croquis* 80, and books on the work of Studio Daniel Libeskind.

Recipient. *Habitable Bridge over the River Thames* International Design Competition Honorable Mention, London, UK. Studio Daniel Libeskind. 1996. Published in various architecture journals, including *El Croquis* 80, and books on the work of Studio Daniel Libeskind.

Recipient. *Ministry of Foreign Affairs Extension* International Design Competition Honorable Mention, Berlin, Germany. 1995. Studio Daniel Libeskind. 1995. Published in various architecture journals, including *El Croquis* 80, and books on the work of Studio Daniel Libeskind.

Recipient. The Cooper Union for the Advancement of Science and Art Full-Tuition Scholarship. New York City, USA. For undergraduate studies leading to the degree of Bachelor of Architecture. 1993-1995.

SCIENTIFIC ADRESSES AND PRESENTATIONS

Invited Speaker. "Collective Form, Vertical and 3D Cities." Singapore-ETH Centre Future Cities Laboratory (SEC-FCL) Advanced Urban Design Programme, Urban Redevelopment Authority Singapore, 2 February 2017.

Invited Panelist. "Smart Cities: Towards a Better Life?" International Night of Ideas 2017, Institut Français Singapore, 23 January 2017.

Invited Speaker. "Future Urban Typologies for Enhancing Liveability in Singapore." Singapore Cities Roundtable 2017, Ministry of National Development Singapore, 16 January 2017.

Invited Keynote Speaker. "Architectural Illumination and Light Installations in Urban Environments." Singapore Architectural Lighting + Design Symposium 2016 (SALDS), Marina Bay Sands, Singapore, 28 September 2016.

Invited Speaker and Panelist. "Dense and Green Building Typologies." Singapore-ETH Centre Future Cities Laboratory (SEC-FCL) Future Cities – Challenges Annual Conference. Connexis Tower, Singapore, 15 September 2016.

Invited Speaker and Panelist. "Dense and Green Building Typologies." Singapore-ETH Centre Future Cities Laboratory (SEC-FCL) Phase 2 Opening Event. ETH Zurich, Switzerland, 22 April 2016.

Invited Keynote Speaker and Panelist. "Dense + Green: Innovative Building Types for Sustainable Urban Architecture." Singapore University of Technology and Design (SUTD) Lee Kuan Yew Centre for Innovative Cities (LKYCIC), 19 February 2016 (in recognition of the launch of the English-language edition of the book under the same title).

Invited Speaker. "The Making of 'The Future of Us.'" Singapore-ETH Centre Future Cities Laboratory (SEC-FCL). 27 January 2016.

Invited Speaker and Panelist. "Dense and Green Building Typologies." German Academic Exchange Service (DAAD) - Technical University Munich (TUM) Asia Research Symposium. Singapore, 23 - 24 November 2015.

Invited Speaker and Panelist. Singapore Ministry of National Development Cities Roundtable. Singapore, 9 November 2015.

Invited Speaker and Panelist. GreenUrbanScape Asia 2015. Singapore, 6 November 2015.

Invited Speaker and Panelist. Philips Innovation Experience 2015. Singapore, 4 November 2015.

Invited Panelist. Architecture and the Academy: Designing a Campus for the Liberal Arts at Yale-NUS College. Singapore, 13 October 2015.

Invited Speaker and Participant. 4th International Architectural Education Summit: Emerging Networks in Architectural Education. Singapore, 9 - 11 September 2015.

Invited Speaker. "Future Cities." Ong&Ong Design Festival. Singapore, 9 July 2015.

Invited Speaker. Singapore Urban Sustainability Conference 2015: Creating a Future-Ready City – Liveable, Sustainable, People-Centric. 10 July 2015.

Invited Speaker. Architecture and Urban Design Distinguished Lecture Series: Human-Centered Design. Savannah College of Art and Design. Savannah, Georgia, USA. 20 January 2015.

Invited Speaker. "Building Sustainably." Singapore Environment Sustainability Conference 2014. Singapore, 16 October 2014.

Invited Speaker and Panelist. Archifest 2014. Singapore Institute of Architects Archifest Pavilion, Marina Bay Sands, 4 October 2014.

Invited Speaker. Design Green! Masterclass. National Design Centre. Singapore, 5 September 2014.

Invited Panelist. Building Energy Efficiency Technology Conference 2014. Singapore, 31 July 2014.

Invited Keynote Speaker and Panelist. Singapore Institute of Architects Practice Convention 2014. "On Interfacing Design and Technology." 26 March 2014.

Invited Speaker and Panelist. "Beyond Benchmarks: Integrating Daylight and Architectural Design." Urban Redevelopment Authority (URA) Singapore i Light Sustainability Workshop. 26 March 2014.

Invited Speaker and Panelist. "Constructing Ecologies." Singapore Urban Redevelopment Authority i Light Symposium, 12 March 2014.

Invited Speaker and Panelist. "Dense + Green: Research on Future Building Typologies." Ministry of National Development Cities Roundtable. Singapore, 28 November 2013.

Invited Speaker and Panelist. "Dense + Green: Research on Future Building Typologies." Urban Redevelopment Authority (URA). Singapore, 19 November 2013.

Invited Speaker and Panelist. "Our Sustainable Conversation." International Green Building Conference (IGBC) Singapore 2013. Singapore, 13 September 2013.

Invited Speaker and Panelist. *International Green Building Conference (IGBC)* Singapore 2013. 11 September 2013.

Invited Speaker. Singapore-ETH Centre Future Cities Laboratory (SEC-FCL). "Dense + Green: Building Typologies for Sustainable Urban Architecture." 22 May 2013.

Invited Speaker and Panelist. "Demands and Realities of Exemplary Eco-Cities." Urban Redevelopment Authority (URA) Architecture and Urban Design Excellence Programme (AUDE). Singapore, 25 April 2013.

Invited Speaker. "Interdependent Design Environments: A New Framework for Ecological Urban Architecture." Singapore-ETH Centre Future Cities Laboratory (ETH-SEC). Singapore, 28 February 2013.

Invited Keynote Speaker and Panelist. "The Future of Green Building in the Tropics: Challenges and Opportunities." Green Building Envelopes and Materials for the Tropics Conference (organized by Austrian Institute of Technology, A*Star Institute of Materials Research and Engineering and Nanyang Technological University). National University of Singapore (NUS), 18 February 2013.

Invited Speaker. "Ecological Urban Architecture: Taking Stock of Green." Singapore Institute of Architects, 31 January 2013.

Invited Keynote Speaker and Panelist. "The Promise of New Materials in Architecture." Academy of Fine Arts Munich, 22 January 2013.

Invited Speaker and Panelist. "Performative Façade Design: The Singapore New Jurong Church." International Building Performance Simulation Association (IBPSA) Lecture Series. Massachusetts Institute of Technology (MIT), Cambridge, USA, 8 February 2012.

Invited Speaker and Panelist. "Ecological Urban Architecture." Singapore University of Technology and Design (SUTD) Lee Kuan Yew Centre for Innovative Cities (LKYCIC). In recognition of the publication of *Ecological Urban Architecture: Qualitative Approaches to Sustainability* (Basel: Birkhäuser, 2012). Singapore, 30 November 2012.

Invited Speaker and Panelist. "Material Design: New Perspectives for Architecture." Ong&Ong Singapore Design Forum. Singapore, 30 January 2012.

Invited Speaker. "Material Innovation in Architecture." Tsinghua University, Beijing, China, 11 October 2011.

Invited Speaker and Panelist. "Skyrise Greenery: The Singapore New Jurong Church." International Union of Architects (UIA) 24th World Congress of Architecture, Tokyo, Japan, 27 September 2011.

Invited Speaker and Panelist. "Ecological Urban Architecture." International Union of Architects (UIA) 24th World Congress of Architecture, Tokyo, Japan, 26 September 2011.

Invited Speaker. "Dense + Green: Architecture Experiments for Singapore's New Waterfront." Singapore Institute of Architects, 16 March 2011.

Invited Keynote Speaker and Panelist. "Material Design: Informing Architecture by Materiality." Material ConneXion, New York City, USA, 1 February 2011 (in recognition of the launch of the English-language edition of the book under the same title).

Invited Speaker. "Material Design: Sustainability, Energy Efficiency and Lifecycles." Sustainability for Planning and Design Lecture Series. Harvard University Graduate School of Design, Cambridge, Massachusetts, USA. 28 October 2010.

Invited Speaker and Panelist. "Material Matters." Input_Output: Adaptive Materials and Mediated Environments Symposium. Temple University, Philadelphia, Pennsylvania, USA, 8 October 2010.

Invited Speaker. "Relational Geographies of Building Practice." Executive Education Program. Harvard University, Cambridge, Massachusetts, USA, 10 May 2010.

Invited Speaker. "Material Design: Architecture, Technology, and Sustainability." Swiss Federal Institute of Technology Lausanne (EPFL), 3 December 2009.

Invited Speaker. "Material Design." ARCHIZOOM Lecture Series. Swiss Federal Institute of Technology Lausanne (EPFL), 23 April 2009.

Invited Speaker and Panelist. *Ecological Urbanism: Alternative and Sustainable Cities of the Future* Conference. Harvard University Graduate School of Design, Cambridge, Massachusetts, USA, 3 - 5 April 2009.

Invited Speaker. "Future Cities: Charting Experiments of Sustainable Architecture and Urbanism." Erasmus Mundus Urbano Lecture Series at Technical University Darmstadt, Germany. 11 February 2009.

Invited Speaker and Panelist. "Global Building Practice in Asia." American Academy of Arts and Sciences, Cambridge, Massachusetts, USA, 2 May 2008.

Invited Speaker. "Transurban: Charting Experiments for Buildings of the Future." Fundación Metropóli, Madrid, Spain, 18 October 2007.

Invited Speaker. "Constructing New Materialities in Architecture." National University of Singapore (NUS), Department of Architecture Lecture Series, 8 August 2007.

Invited Speaker. "Globalization and Building Practice in Asia: Four Case Study in China." Singapore Institute of Architects, 19 July 2007.

Invited Speaker and Panelist. "Transurban: Charting Experiments for Buildings of the Future." SPACE Gallery, Seoul, Korea, 5 July 2007.

Invited Speaker and Panelist. "Transurban: Charting Experiments for Buildings of the Future." Hong Kong Institute of Architects, Hong Kong, China, 12 May 2007.

Invited Speaker. "Ecological Architecture and Urbanism." Alumni Weekend. Harvard University Graduate School of Design, Cambridge, Massachusetts, USA. 21 April 2007.

Invited Panelist. Green GSD. Harvard University Graduate School of Design, Cambridge, Massachusetts, USA. 19 April 2007.

Invited Speaker. "Ecological Architecture and Urbanism." Tsinghua University. Beijing, China, 27 March 2007.

Invited Speaker and Panelist. "Global Building Practice in Asia." Modern Asia Series. Harvard University Asia Center. Cambridge, Massachusetts, USA, 16 March 2007.

Invited Speaker. "Transurban: Charting Experiments for Cities of the Future: Vauban." Harvard University Allston Development Group. Cambridge, Massachusetts, USA, 13 March 2007.

Invited Speaker and Panelist. "Transurban: Charting Experiments for Buildings of the Future." Urban Redevelopment Authority (URA) Architecture and Urban Design Excellence Programme (AUDE). Singapore. March 2, 2007.

Invited Speaker and Panelist. "Transurban: Charting Experiments for Buildings of the Future." Harvard University Graduate School of Design. Cambridge, Massachusetts, USA, 11 December 2006.

Invited Speaker. "New Sustainable Architecture and Urbanism in Germany." Northeastern University. Boston, Massachusetts, USA, 13 November 2006.

Invited Speaker and Panelist. "Global Megaprojects in China: Impacts on Design and Building Discourse and Practice." First Biennial Conference, Fudan University International Forum on Architecture and Urbanism. Shanghai, China, 3 November 2006.

Invited Speaker. "Relational Geographies of Building Practice." Northeastern University. Boston, Massachusetts, USA. 10 October 2006.

Invited Speaker. "Integrating Material Culture." National University of Singapore (NUS). Singapore, 10 August 2006.

Invited Speaker. "Global Building Practice." Globalization and its Impacts on Cities and Urbanization. George Washington University. Washington, DC, USA, 24 February 2006.

SCIENTIFIC COMMITTEES AND EXPERT PANELS

Invited Member. Singapore Land Transport Authority (LTA) Design Review Panel. 2016 -.

Invited Member. Singapore ETH Centre Future Cities Laboratory (SEC-FCL) Steering and Management Committee. 2015 -.

Invited Jury Member. Singapore Institute of Architects (SIA) National Design Awards 2015.

Invited Expert Member. Singapore Ministry of National Development. Singapore Science Centre Infrastructure Sub-Committee. Singapore, 2015 -.

Invited Participant. Singapore ETH Centre (SEC) Future Cities Laboratory Symposium. Zurich, Switzerland, 24 - 26 September 2014.

Invited Jury Member. Singapore Institute of Architects (SIA) National Design Awards 2014.

Invited Jury Member. Ong&Ong Design Festival. 6 July 2014.

Invited Jury Member, Technical Evaluation Panel. Land and Liveability National Innovation Challenge (L2-NIC). Ministry of National Development Singapore Research Fund (MNDRF). 2014 - 2016.

Invited Jury Member. Urban Redevelopment Authority (URA) Architecture and Urban Design Excellence Program (AUDE) Challenge for the Urban and Built Environment (CUBE) 2013.

Invited Jury Member. Singapore Institute of Architects (SIA) Parametric Design Ideas Competition 2013.

Invited Jury Member. Building and Construction Authority (BCA) Singapore Building Information Modeling (BIM) Competition. 29 July 2013.

Invited Jury Member. Singapore Institute of Architects National Design Awards 2013.

Invited Panelist. Singapore Urban Sustainability R&D Congress. 27 - 28 June 2013.

Invited Panelist. Housing Development Board (HDB) Singapore Land and Liveability R&D Roadmapping Workshop: Enhancing Environmental Performance and Accessibility in High-Density Residential Environments. 30 May 2013.

Invited Contributor. Building Construction Authority (BCA) Building Energy Efficiency Technology Roadmap Focus Group. 29 May 2013.

Invited Panelist. Ministry of Communications and Information Design Singapore Roundtable. 8 May 2013.

Invited Jury Member. Ong&Ong Singapore Design Festival 2013.

Invited Jury Member. Building Construction Agency Singapore Green Building Council (BCA-SGBC) Green Building Awards 2013.

Member. Ministry of National Development Research Fund (MNDRF) Singapore Technical Evaluation Panel: Sustainable Urban Living. 2012-2013.

Member. A*STAR / Ministry of National Development (MND) Singapore Technical Evaluation Panel: Green Building. 2012 - 2013.

Jury Member. Urban Redevelopment Authority (URA) Singapore Challenge for the Urban and Built Environment (CUBE) 2012.

Invited Participant. Singapore Centre for Liveable Cities (CLC) Singapore Principles for Liveable High-Density Cities Workshop Series 2012.

Jury Member. Architects in Mission (AIM) Beijing, China. Shengsi Island Redevelopment International Design Competition 2012.

Jury Member. Architects in Mission (AIM) Beijing, China. Post-industry Age, Green Transformation International Design Competition 2011.

Jury Member. Architects in Mission (AIM) Beijing, China. Cultural Infusion of Beijing's New Central Business District International Design Competition 2010.

Jury Member. Harvard University Graduate School of Design. Arthur E. Wheelwright Traveling Fellowship in Architecture. 2005 - 2011.

Jury Member. Harvard University Graduate School of Design. Julia Amory Appleton Traveling Fellowship in Architecture 2005 - 2011.

Jury Member. Harvard University Graduate School of Design. Peter Rice Internship at Renzo Piano Building Workshop Committee. 2004 - 2011.

Recurring Invited Design Jury Member at the following universities (in alphabetical order): Academy of Fine Arts Munich, Berlin University of the Arts, Boston Architectural Center, The Cooper Union Irwin S. Chanin School of Architecture, Columbia University, Cornell University, Fudan University, Inha University, Massachusetts Institute of Technology, National University of Singapore, Northeastern University, Princeton University, Rhode Island School of Design, Swiss Federal Institute of Technology Zurich, Swiss Federal Institute of Technology Lausanne, Southern California Institute of Architecture, Technical University Berlin, Technical University Munich, Technical University Stuttgart, Tsinghua University, Yale University.

FUNDED RESEARCH PROJECTS

Principal Investigator. "Inno(vation)polis East." Funded by SUTD-JTC I³ Centre. 2017 - (pending).

Principal Investigator. "Prototyping Concrete-Sandwich Shells: An Efficient Structural Typology Relying on Digital Design and Prefabrication." Funded by SUTD-MIT International Design Centre (IDC). 2016 - 2017.

Principal Investigator. "Integrated Computational Tools for Efficient Optimization of Parametric Designs." Funded by SUTD-MIT International Design Centre (IDC). 2015 - 2016.

Principal Investigator. "*The Future of Us' Exhibition Pavilion.*" Funded by Singapore Ministry of National Development. 2015.

Principal Investigator (with Suranga Nanayakkara). "Sonic SG: An Interactive Floating Light Installation for SG50." Funded by Singapore Ministry of Culture, Community and Youth (MCCY) and Philips Lighting.

Principal Investigator. "RIBbon @ Read Bridge: An Interactive Spatial Lighting Transformation." Singapore, 2015. Funded by Singapore River Organization, Clarke Quay and Philips Lighting.

Principal Investigator. "Dense + Green Building Typologies." Singapore-ETH Centre Future Cities Laboratory (SEC-FCL). Funded by National Research Foundation (NRF) Singapore. 2015 - 2018.

Principal Investigator. "Future Urban Typologies For Enhancing Liveability in Singapore." Singapore University of Technology and Design (SUTD) Lee Kuan Yew Centre for Innovative Cities (LKYCIC) The Future of Cities Project. Funded by Ministry of National Development Singapore. 2014 - 2016.

Principal Investigator. "Stone Caldarium" Funded by SUTD-MIT International Design Centre (IDC). 2014 - 2015.

Principal Investigator. "SpringerBriefs in Architectural Design and Technology." Springer Series Editor Publication Grant. 2014 - .

Principal Investigator. "Investigations in Generative Aesthetics for Tropical Urban Living." DesignSingapore research and exhibition grant for Venice Architecture Biennale 2014 participation.

Principal Investigator. "nZwam: An Interactive Light Installation for LUX Wellington, New Zealand." Funded by LUX, Goethe Institut Wellington and Philips Lighting. 2014.

Principal Investigator (with Suranga Nanayakkara). "iSwarm: An Interactive Light Installation for iLight Marina Bay." Funded by Urban Redevelopment Authority (URA) Singapore and Philips Lighting. 2014.

Principal Investigator. "Dense + Green: Building Typologies for Sustainable Urban Architecture." Funded by Singapore University of Technology and Design (SUTD) Lee Kuan Yew Centre for Innovative Cities (LKYCIC). 2012 - 2014.

Principal Investigator. "Dense + Green: Building Typologies for Sustainable Urban Architecture." Publication grant by Singapore University of Technology and Design (SUTD) Lee Kuan Yew Centre for Innovative Cities (LKYCIC). 2012 -2014.

Principal Investigator. "Optimization Tools for Generative Methods in Architecture and Sustainable Design." Funded by SUTD-MIT International Design Centre (IDC). 2012 - 2014.

Principal Investigator. "Climate-Responsive Design Optimization and Integration in Architecture." Singapore University of Technology and Design (SUTD). 2011 - 2014.

Principal Investigator. "Ecological Urban Architecture: Qualitative Approaches to Sustainability." Funded by SUTD-MIT International Design Centre (IDC). 2011 - 2012.

Principal Investigator. "Material Design." Funded by Harvard University Graduate School of Design Dean's Faculty Research Grant. 2009 - 2011.

Principal Investigator. "Global Building Practice: Further Case Studies in Asia 2." Funded by Harvard University Asia Center. 2008 - 2011.

Principal Investigator. "Transurban: Further Case Studies." Funded by Harvard University Graduate School of Design Dean's Faculty Research Grant. 2007 - 2011.

Principal Investigator. "Environmental Building on the Urban Scale: A Case Study of Vauban, Germany." Funded by Harvard University Graduate School of Design Dean's Faculty Research Grant. 2005 - 2006.

Principal Investigator. "Global Building Practice: Further Case Studies in Asia 1." Funded by Harvard University Asia Center. 2005 - 2007.

Principal Investigator. "Global Building Practice: Four Case Studies in Asia." Funded by Harvard University Graduate School of Design Dean's Faculty Research Grant. 2004 - 2006.

Principal Investigator. "Integrating Material Culture." Funded by Harvard University Graduate School of Design Dean's Faculty Research Grant. 2004 - 2006.

Principal Investigator. "Relational Geographies of Building Practice: An Analytic Framework." Funded by Hochtief Group. 2001 - 2004.

Finalist. World Architecture Festival Award 2016, Building of the Year, for 'The Future of Us' Exhibition Pavilion at Gardens by the Bay, Singapore.

Recipient. World Architecture Festival 2016 High Commendation, Display – Completed Buildings Category, for 'The Future of Us' Exhibition Pavilion at Gardens by the Bay, Singapore.

Recipient. Singapore Structural Steel Excellence Trophy Award for 'The Future of Us' Exhibition Pavilion at Gardens by the Bay, Singapore.

Recipient. A' Design Platinum Award 2016 for 'The Future of Us' Exhibition Pavilion at Gardens by the Bay, Singapore.

Recipient. Singapore Design Gold Award 2016 for 'The Future of Us' Exhibition Pavilion at Gardens by the Bay, Singapore.

Recipient. SG Mark Award 2016 for "The Future of Us' Exhibition Pavilion" at Gardens by the Bay, Singapore.

Commissioned Designer. "The Future of Us' Exhibition Pavilion." Funded by The Republic of Singapore. 2015.

Commissioned Designer. "Sonic SG." Funded by Singapore Ministry of Culture, Community and Youth (MCCY) and Philips Singapore. 2015.

Commissioned Designer. "RIBbon @ Read Bridge." Funded by Singapore River Organization, Clarke Quay and Philips Lighting. Singapore, 2015.

Invited Designer (in collaboration with Brandon Clifford). "Microtherme" in Bigger than a Breadbox, Smaller than a Building Exhibition, Boston Society of Architects, Massachusetts, USA. 17 June - 4 October 2015.

Competition Entry. "ArtCloud: An Inflatable Modular Exhibition Structure." OUE Artling Winning Designs Exhibition. National Design Centre. Singapore, 12 - 27 February 2015.

Competition Entry. "Thermochromic Skin: A Temporary Screen for the Singapore Institute of Architects Building." Singapore Institute of Architects (SIA) Skin Competition. January 2015.

Invited Exhibition Entry. "Keepers and Bees." Singapore Institute of Architects (SIA) Archifest 2014. Interactive Design Installation. Orchard Road Archifest Pavilion. 26 September - 11 October 2014.

Invited Designer. "nZwarm." LUX Wellington, New Zealand, 2014. Funded by Goethe Institut Wellington and Philips New Zealand.

Invited Designer. "Investigations in Generative Aesthetics for Tropical Urban Living." Venice Architecture Biennale 2014. Funded by DesignSingapore.

Invited Designer. "iSwarm." i Light Marina Bay Singapore 2014. Funded by Urban Redevelopment Authority (URA) Singapore and Philips Lighting.

1st Prize Winner. "Dhoby Ghaut Green Pavilion." Singapore Institute of Architects (SIA) Parametric Design Ideas Competition 2013.

Design Consultant. "Singapore Whole-of-Government Pavilion." World Cities Summit. Marina Bay Sands Expo and Convention Center, Singapore, 2012.

Competition Entry. "Punggol Mosque." Organized by Singapore Institute of Architects (SIA) and Islamic Religious Council of Singapore (MUIS). Singapore, 2011.

Commissioned Designer. "Parametric Ribbon: SUTD Open House Pavilions." Singapore University of Technology and Design. 2011.

Design Consultant. "New Jurong Lutheran Church." Singapore, 2010 - 2012.

Design Consultant. "Wuhan Red Lotus Lake Housing." Wuhan, China. 2010 - 2011.

Invited Designer. "Bamboo Oblique." Gwangju Design Biennale. Gwangju, Korea, 2009.

Invited Design Workshop Leader. "Innovative Materials in Architecture." Inha University. Incheon, Korea. 2008.

Finalist. Future Living Ideas Competition. Munich, Germany, 2007.

Project Facilitator. Inventioning Architecture Traveling Exhibition and Lecture Series. In collaboration with Swiss House for Advanced Research and Education (SHARE), Boston, Massachusetts, USA, 2007.

Jury Selection. "A Walk in the Yard." Harvard Vision 2020 Competition. Cambridge, Massachusetts, USA, 2006.

Jury Selection. "Mimesis: The Place of the Tides." Tsunami Memorial International Design Competition. Bangkok, Thailand, 2006.

Design Consultant. Harvard Allston Campus. Cambridge, USA, 2005 - 2006.

Architect. *B43 Residence*. Freiburg, Germany. 2003 - 2004.

Jury Selection. *Designing the Highline* Competition. "The Highline as a Place of Repose." New York City, USA, 2003.

Jury Selection. "Big City Room." Urban Redevelopment Authority (URA) 10 Public Spaces Competition. Singapore, 2003.

Honorable Mention. "Tidal Capsules: Four Exhibition Pavilions for Lisbon's Praça do Comércio, Lisbon, Portugal." *Architecture and Water* Competition. International Union of Architects (UIA) Competition, 2002.

Competition Entry. Grand Egyptian Museum International Design Competition. Cairo, Egypt. 2002.

Architect (Convergeo). "Harvard University Center for Hellenic Studies." Washington, DC, USA. 2001 - 2002.

1st Prize Winner. Steglitz Housing Competition. Berlin, Germany. 2000.

Architect (Hochtief Group). "Potsdamer Platz Housing." Berlin, Germany. 2000 -2001.

Architect (Hochtief Group). "Sony Center Potsdamer Platz." Berlin, Germany. 1997 - 2000.

Architect (Hochtief Group). "RWE Headquarters." Essen, Germany. 1997.

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Invited Reviewer. *International Journal of Sustainable Built Environment*. 2015 - .

Invited Reviewer. *Routledge Architecture*. 2015 - .

Series Editor. *SpringerBriefs in Architectural Design and Technology*. New York: Springer, 2014 - .

Invited Reviewer. *The Journal of Architecture*. 2014 - .

Subject Editor. *Principles of Construction Book Series*. Basel: Birkhäuser, 2008 - .

Editorial Advisor. *Journal of Green Building*. 2008 - .

Editorial Board Member. *Architectural Research Centers Consortium (ARCC) Journal*. 2008 - .

Editor. *Forum: Research and Development at Hochtief*. 2000 - 2004.

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Invited Participant. "The Future of Us' Exhibition Pavilion." *Avant-Garde Architecture: NeoFuturism and the New Baroque* Traveling Exhibition. Milan, Italy. May 2017.

Invited Participant. "The Future of Us' Exhibition Pavilion." *Avant-Garde Architecture: NeoFuturism and the New Baroque* Traveling Exhibition. Athens, Greece. 6 - 17 February 2017.

Invited Participant. "The Future of Us' Exhibition Pavilion." *Avant-Garde Architecture: NeoFuturism and the New Baroque* Traveling Exhibition. Lisbon Architecture Triennale. Lisbon, Portugal. 1 - 21 October 2016.

Invited Participant. "The Future of Us' Exhibition Pavilion." *A' Design Winner 2016* Traveling Exhibition. Shenzhen International Design Fair. Shenzhen, China. 6 - 8 November 2016.

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Invited Exhibition. *The Making of 'The Future of Us' Exhibition Pavilion*. Singapore University of Technology and Design. 4 July - 3 October 2016.

Invited Participant. "Dense and Green Building Typologies." *Back to Basic* Exhibition. The Association of Siamese Architects under Royal Patronage. Bangkok, Thailand. 26 April - 1 May 2016.

Invited Participant. "The Future of Us' Exhibition Pavilion." *Singapore Good Design Mark* Exhibition. National Design Centre. Singapore. 8 March - 30 June 2016.

Invited Participant. "The Future of Us' Exhibition Pavilion." 4th SUTD-MIT IDC Summit Exhibition. ArtScience Museum Singapore. 23 - 24 January 2016.

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Invited Participant (in collaboration with Matter Design). "Microtherme." *Bigger than a Breadbox, Smaller than a Building* Exhibition. Boston Society of Architects, USA. 17 June - 4 October 2015.

Invited Participant. "Sonic SG." *SG50* Exhibition. UOB Plaza, Singapore. 1 December 2015 - 6 January 2016.

Invited Participant. "ArtCloud: An Inflatable Modular Exhibition Structure." *OUE Artling* Exhibition. National Design Centre Singapore. 12 - 27 February 2015.

Invited Participant. "Thermochromic Skin: A Temporary Screen for the Singapore Institute of Architects Building." *Skin* Exhibition. Singapore Institute of Architects. 29 - 31 January 2015.

Invited Exhibition. *Making Sense: Intersecting Lines of Investigation in Design and Technology*. National Design Centre Singapore. 8 - 30 November 2014.

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Invited Participant. "Bamboo Oblique: A Pavilion for the Gwangju Design Biennale." *d3 Natural Systems* Exhibition. Gallery MC, New York City, USA. 10 May - 30 June 2012.

Invited Participant. "Skyrise Greenery: The Singapore New Jurong Church." 24th International Union of Architects (UIA) World Congress of Architecture: *Design 2050* Exhibition. Tokyo International Forum, Japan. 25 September - 1 October 2011.

Invited Exhibition. *Dense + Green: Architecture Experiments for Singapore's New Waterfront*. Singapore Institute of Architects. 1 - 31 March 2011.

Invited Participant. "Material Design." *Platform 3* Exhibition. Harvard University Graduate School of Design, Cambridge, Massachusetts, USA. 1 - 23 December 2010.

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Invited Participant. "Mimesis: The Place of the Tides." *International Tsunami Memorial Design Competition* Exhibition. Bangkok, Thailand. 7 - 13 February 2006.

Invited Participant. "Big City Room." *10 Public Spaces* Exhibition. Urban Redevelopment Authority (URA) Singapore. 27 November 2003 - 10 January 2004.

Invited Participant. "The Highline as a Place of Repose." *Designing the Highline* Exhibition. Grand Central Station, New York City, USA. 10 - 26 July 2003.

Invited Participant. "Tidal Capsules: Four Transforming Structures for Lisbon's Praça do Comércio." 21st International Union of Architects (UIA) World Congress of Architecture: *Resource Architecture* Exhibition. International Conference Center (ICC) Berlin, Germany. 22 - 26 July 2002.