

Address: Amagerbrogade 136, 4  
2300 Copenhagen, Denmark  
Phone: +4542795221  
Mail: andersdeleuran@outlook.com  
Web: andersholdendeleuran.com



- Employment**
- CITA - Centre for Information Technology and Architecture** PhD Fellow  
The PhD project extends the interdisciplinary Sapere Aude funded "Complex Modelling" project specifically researching integrative development strategies for nonlinear computational design models. The project is supervised by Professor Mette Ramsgaard Thomsen (KADK) and Professor Mark Pauly (EPFL).  
Feb 2014-Present, Royal Danish Academy of Fine Arts, School of Architecture, Copenhagen, Denmark
- Aedas Architects - Research & Development Group** Computational Designer  
Developer on competition and commissioned projects: computational modelling, spatial analysis and automation. Introduced Python/Grasshopper to the group, established internal development blog/wiki.  
Projects: Polish Embassy, RIBS, Doha Metro, GEMS, Euston Crossing, French School, Green Block Astana.  
Jul 2011-Feb 2014, Stockholm, Sweden and the Aedas London Office, United Kingdom
- CITA - Centre for Information Technology and Architecture** Research Assistant  
Researcher and designer on projects exploring advanced modelling and material behaviour. Introduced Maya/Nucleus across the CITA team, teaching and dissemination, online presence and marketing.  
Projects: Persistent Model Nr.1, DevA, Distortion, Thaw, Dermoid, Reef, Designing with Deformation.  
Dec 2009-May 2011, Royal Danish Academy of Fine Arts, School of Architecture, Copenhagen, Denmark
- Education**
- Master of Science in Engineering in Architecture & Design**  
Department of Architecture, Design & Media Technology, Aalborg University  
2005-2008, Aalborg, Denmark
- Advanced Design Visualization Course**  
Umeå Institute of Design, Umeå University  
2006-2007, Umeå, Sweden
- Bachelor of Science in Engineering in Architecture & Design**  
Department of Architecture, Design & Media Technology, Aalborg University  
2002-2005, Aalborg, Denmark
- Freelance**
- White Architects - Dsearch Group** Computational Design Consultant  
Consulting on programming and development, specifically under IronPython for Rhino/Grasshopper  
Oct 2015 -Present, Stockholm/Gothenburg, Sweden
- CITA & RMIT Spatial Information Architecture Laboratory** Designer/Developer  
Part of the core design and development team on the ongoing "Dermoid" series of installations  
2011-2013, KADK, Copenhagen, Denmark and RMIT University, Melbourne, Australia
- Philip Beesley Architects & CITA** Exhibition Designer/Manager  
Project management and maintenance of the Sargasso Fields and Sargasso Cloud installations  
Sep-Dec 2009, Pluto Festival, Opwijk, Belgium and COP15 Climate Summit, Copenhagen, Denmark
- JAJA Architects & Shift Control** Digital Designer  
Behavioural flow/flocking simulation and visualization on Nørreport Station competition  
June 2009, Copenhagen, Denmark
- Søren Robert Lund Architects** Visualization Specialist  
Rendering and 3D modelling on aquarium competition  
Dec 2008, Copenhagen, Denmark
- NoRA - Venice Biennale Pavilion Team** Designer/Visualisation Specialist  
Concept and design development, 3D modelling and visualization, fabrication strategies, realization  
Sep 2005-Aug 2006, Aalborg University, Aalborg, Skagen, Denmark, Venice, Italy
- Struer Museum & KPF Arkitekter** Visualization/Graphic Designer  
3D modelling and rendering for extension and renovation of Struer Museum  
2004-2005, Struer, Denmark
- Teaching**
- Architectural Association - Aarhus Visiting School** Tutor/Developer  
Co-led the "Rethinking Patterns" summer school for students and professionals  
Aug 2015, Aarhus School of Architecture, Aarhus, Denmark
- Institute of Technology in Architecture - ETH Zurich** Guest tutor  
Co-led workshop presenting the ShapeOp framework for NCCR members  
April 2015, ETH Zurich, Switzerland.
- Academy for Architectural Culture - Gerkan, Marg and Partners Architects** Tutor/Developer  
Co-led the "Amphibious Hamburg Research Lab" summer school for students and professionals  
June-July 2014, Academy for Architectural Culture, Hamburg, Germany
- CITA, IAAC and UDK** Tutor/Developer  
Co-taught CITA/IAAC master students in "New Hybrids" workshop with UDK/KET, Christoph Gengnagel  
March 2014, Royal Danish Academy of Fine Arts, School of Architecture, Copenhagen, Denmark
- SIAL/RMIT University** Guest Lecturer  
Led workshop on complex modelling for master/Phd students, post grads and professionals  
May 2013, Design Research Institute, RMIT University, Melbourne, Australia

**TU Delft - Hyperbody Research Group** Guest Lecturer

Led workshop on urban and architectural qualities of movement and visibility structures  
 Nov 2011, Architecture Faculty, Delft University of Technology, The Netherlands

**KTH - School of Architecture** External Lecturer

Co-taught course on representation in an urban context to third year students  
 Sep 2011-Jan 2012, Royal Institute of Technology, School of Architecture, Stockholm, Sweden

**CITA - Royal Danish Academy of Fine Arts, School of Architecture** Assistant Lecturer

Co-taught master students in four workshop studios as part of Mark Burry guest professorship  
 2010-2011, Royal Danish Academy of Fine Arts, School of Architecture, Copenhagen, Denmark

**Department of Architecture, Design & Media Technology** External Lecturer

Head of Digital Maps master course in 3D modelling, rendering, post production etc.  
 Jan-Mar 2009, Aalborg University, Aalborg, Denmark

**Department of Architecture, Design & Media Technology** Guest Lecturer

Head of advanced rendering, compositing and post production to master students  
 Sep-Oct 2008, Aalborg University, Aalborg, Denmark

**Designing and Inhabiting Virtual Environments** Teaching Assistant/Group Leader

Led and co-taught student group as part of Digital Design conference and workshop  
 Jul 2008, Faculty of Architecture, University of Ljubljana, Slovenia

**Department of Architecture, Design & Media Technology** Teaching Assistant

Assistant on first year course in 3D modelling, animation and rendering  
 Feb-May 2005, Basis year education, Aalborg University, Denmark

Publications

**Hybrid Tower, Designing Soft Structures** Co-Author

Proceedings of Design Modelling Symposium 2015: Modelling Behaviour  
 Oct 2015, Copenhagen, Denmark

**ShapeOp - A Robust and Extensible Geometric Modelling Paradigm** Co-Author

Proceedings of Design Modelling Symposium 2015: Modelling Behaviour  
 Oct 2015, Copenhagen, Denmark

**Designing CNC Knit for Hybrid Membrane and Bending Active Structures** Co-author

Proceedings of Textile Composites and Inflatable Structures: Structural Membranes 2015  
 Oct 2015, Barcelona, Spain

**The Tower: Modelling, Analysis and Construction of Bending Active Tensile Membrane Hybrid Structures**

Lead Author, Proceedings of the International Association for Shell and Spatial Structures Symposium 2015  
 Aug 2015, Amsterdam, The Netherlands

**Synthesizing a Nonlinear Modelling Pipeline for the Design of Masonry Arch Networks** Lead Author

Publication of the Utzon(X) Architecture Summer School 2014 (yet to publish)  
 April 2015, Aalborg University, Aalborg, Denmark

**Empathic Space: The Computation of Human-Centric Architecture** Contributor

Architectural Design (AD) reader, guest editors: Christian Derix, Åsmund Izaki  
 Sep 2015

**The Challenge of the bespoke - Design, Simulation and Optimisation of a Computationally Designed**

**Plywood Gridshell** Co-Author

Proceedings of eCAADe 2014 - Fusion: Data integration at its best  
 Sep 2014, Northumbria University, Newcastle UK

**Topological Infrastructure Analysis of the Built Environment** Lead Author

Proceedings of EAEA11 2013 - Envisioning Architecture: Design, Evaluation, Communication  
 Sep 2013, Politecnico di Milano, Milan, Italy

**A New Material Practice: Integrating Design and Material Behavior** Co-Author

Proceedings of the 2012 Symposium on Simulation for Architecture and Urban Design  
 May 2012, San Diego, CA, United States of America

**Process Through Practice: Synthesizing a Novel Design and Production Ecology** Co-Author

Proceedings of ACADIA 12: Synthetic Digital Ecologies  
 Jan 2012, San Francisco, United States of America

**Designing with Deformation: Sketching Material and Aggregate Behaviour of Actively Deforming Structures** Lead Author

Proceedings of the 2011 Symposium on Simulation for Architecture and Urban Design  
 Apr 2011, Boston, MA, United States of America

Software

**3D Modelling** Rhino, Revit, 3ds Max, Maya, AutoCAD, **Rendering** Mental Ray, V-Ray, Cycles

**Computational Modelling** Grasshopper, RhinoCommon, GHPython, Kangaroo, Ladybug, Karamba etc.

**Programming** Python, IronPython, C#, .NET, Java, Dot, **IDE** Sublime Text, Visual Studio, **GIT** SourceTree

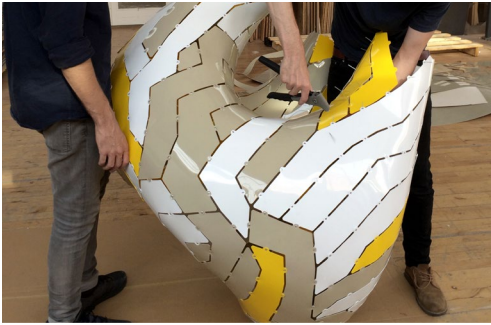
**Graphic Design** Photoshop, Illustrator, **DTP** Indesign, **LaTeX** TexMaker, **Reference** Mendeley

**Video** After Effects, Premiere Pro, CamStudio, Handbrake, Virtual Dub, **Web** WordPress, Cargo

Misc

**Languages** Fluent in spoken and written Danish and English, conversational Norwegian and Swedish, basic understanding of German

**Drivers License** Danish B-Class

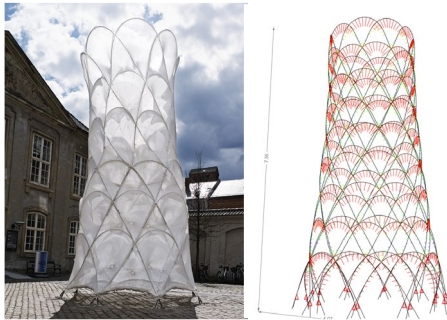


### Rethinking Patterns

AA/AARCH 2015

Developer and tutor for the first AA Visiting School in Denmark, exploring lighting and environmental analysis, mesh decomposition and planar fabrication strategies.

With: Jens Pedersen, Dave Reeves, Ali Farzaneh, Guests: Daniel Piker, Michael Weinstock, Andreas Eggertsen

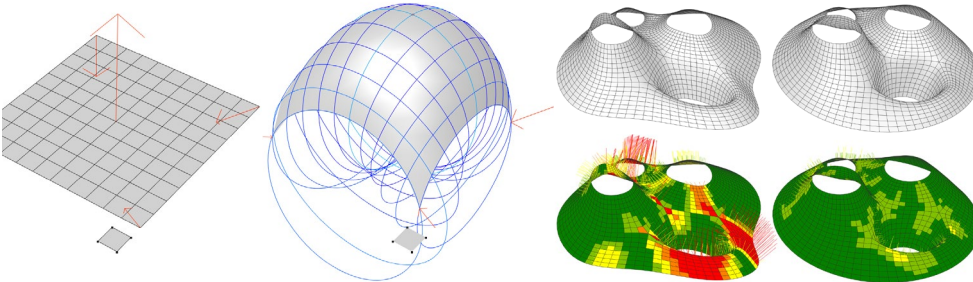


### Hybrid Tower

CITA/KET/UDK 2014-2015

Developer of computational design modelling pipeline for form finding, analysis and fabrication. Also heavily involved in design detailing and construction of the 10 meter tall bending active membrane hybrid tower.

With: Mette Ramsgaard Thomsen, Martin Tamke, Christoph Gengnagel, Michel Schmeck, Ida Katrine Friis Tinning, Greg Quinn

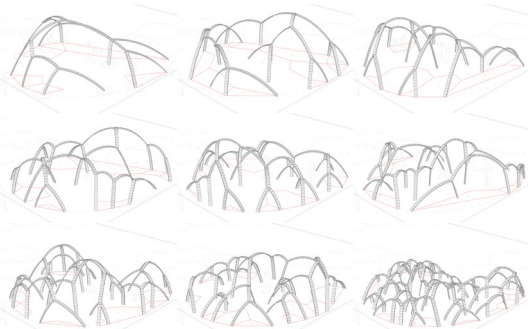


### ShapeOp

LGG/EPFL 2014-2015

GHPython development, component software design and implementation of the unified geometry processing C++ framework for modelling and optimization under constraints.

With: Mario Deuss, Bailin Deng, Sofien Bouaziz, Mark Pauly

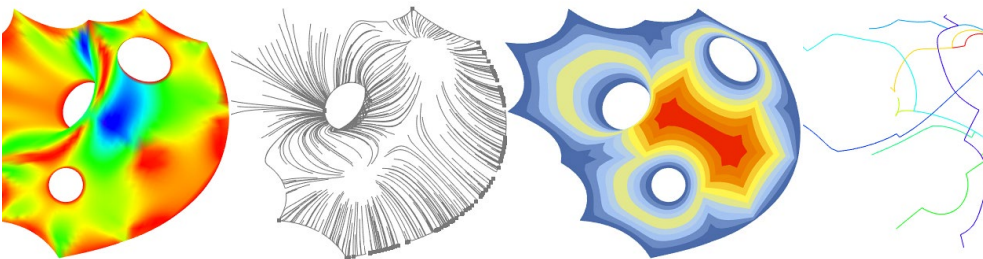


### Utzon(X) Pavilion

Aalborg University 2014

Development of a modelling pipeline for the design and optimization of masonry arch networks in the context of the Utzon(X) summer school.

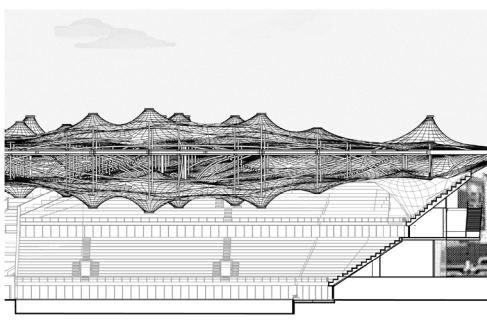
With: David Stasiuk, Isak Worre Foged, Mads Brath



### MeshAnalysis

2014-

Ongoing development of a series of open source mesh analysis algorithms written in GHPython/RhinoCommon/NetworkX.



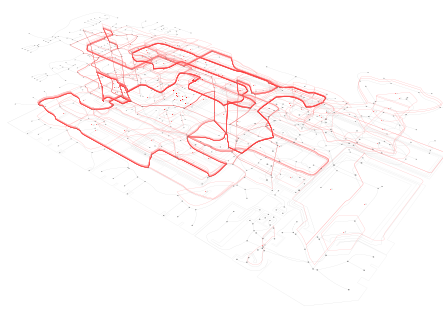
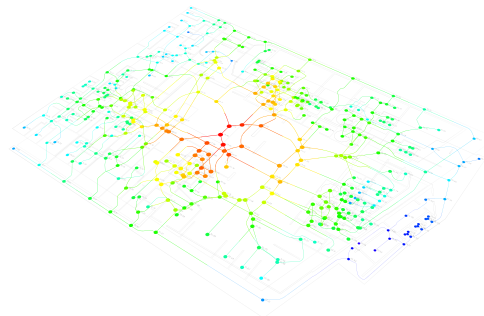
### Amphibious Hamburg

CITA/AAC/GMP 2014

Developed computational modelling pipelines and tutored for a summer school proposing designs for an aquatic centre for a Hamburg summer Olympics bid.

With: Mette Ramsgaard Thomsen, Martin Tamke, David Stasiuk, Enno Maas, Annika Schröder, Johann von Mansberg, Sven Plieninger, Daniel Gebreiter, Guests: Daniel Piker, David Rutten

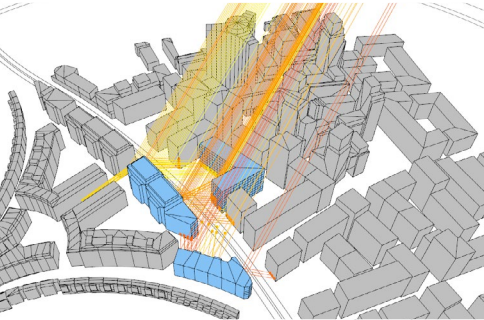




### Resilient Infrastructure and Building Security

Aedas Architects 2011-2013  
 Developed a suite of tools for performing topological infrastructure analysis of the built environment. Including extracting medial representations and running graph theoretical measures on these.

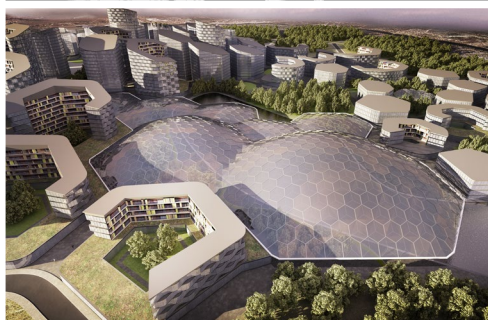
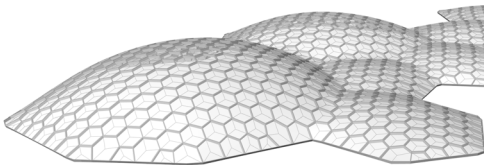
With: Christian Derix, Åsmund Izaki



### Earls Court Glare Study

Aedas Architects 2013  
 Developed a software tool implemented for determining whether new developments along a train track would reflect sunlight and generate glare intersecting with the critical field of view of train drivers travelling in both directions.

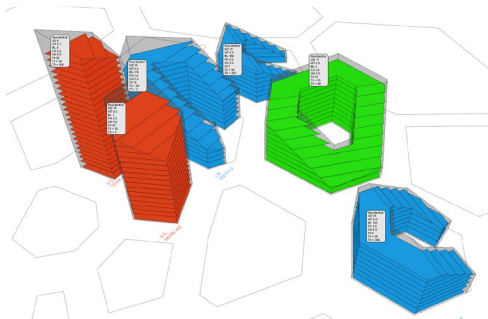
With: Christian Derix



### Green Block Astana II

Aedas Architects 2013  
 Developed a modelling pipeline for generating and form finding biodomes and estimating their cost.

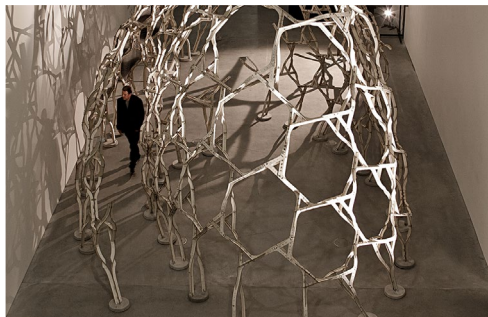
With: Christian Derix, Lucy Helme, Kim Lodge, Mike Oades



### Green Block Astana I

Aedas Architects 2013  
 Developed a dynamic massing tool which generates massings based on a list of values that can be manipulated in the Rhino viewport and/or optimized using Grasshopper.

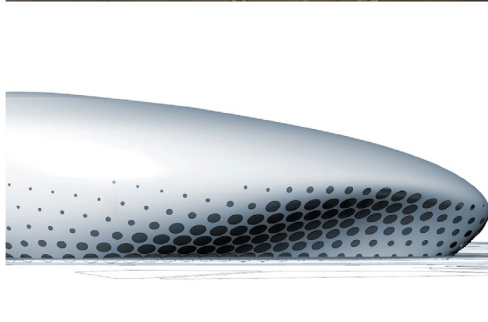
With: Christian Derix, Prarthana Jagannath, Kim Lodge, Mike Oades



### Dermoid Series

CITA/SIAL/UDK 2010-2013  
 Developer and designer on all iterations, responsible for computational design with a primary focus on form finding, geometrical modelling and assembly.

With: Mark Burry, Martin Tamke, Mette Ramsgard Thomsen, Phil Ayres, Aron Fidjeland, Stig Anton Nielsen, Tore Banke, Jacob Riiber, Jane Burry, Daniel Davis, Alexander Pena, Michael Wilson

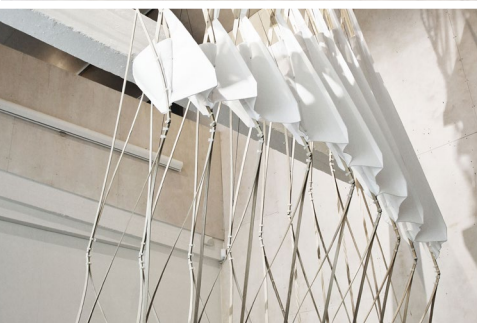
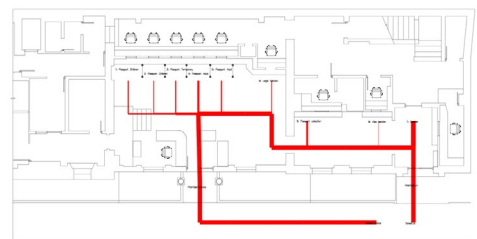
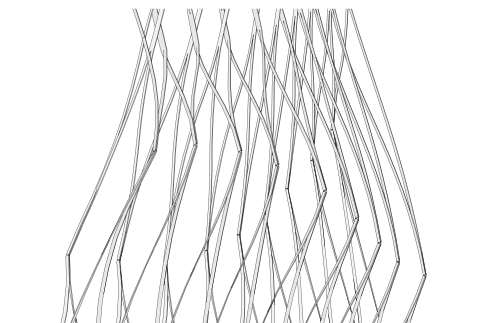


### Sabic

Aedas Architects 2013  
 Developed a modelling pipeline for packing and dimensioning facade openings on a concrete shell informed by yearly solar radiation.

With: Christian Derix, Kim Lodge





Aedas Architects 2012

With: Christian Derix

## Aedas Architects 2011

With: Åsmund Izaki, Christian Derix

## CITA, RPI 2010

With: Martin Tamke, Brady Peters, Niels Andersen, Ali Tabatabai, Reese Campbell, Demetrios Comodromos, David Stasiuk

## CITA 2010

With: Mette Ramsgaard Thomsen, Karin Bech, Kristine Agergaard Jensen, Aron Fidjeland

## CITA 2009-2010

With: Phil Ayres

## CITA 2010

With: Aurélie Mossé