

CURRICULUM VITAE

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PROFILE

I am a teacher and researcher at KU Leuven, Faculty of Architecture, Campus Sint-Lucas, and a teacher at the Willem de Kooning Academy Rotterdam, and Fontys Master of Architecture. Next to my research and teaching, I work as a designer engineer of non-conventional architectural structures. In my research and teaching, I am interested in the design of learning tools and strategies, with a focus on making, concept learning, and multidisciplinary practices. In my PhD thesis, various learning methods to support concept learning in construction education are designed and tested. In my engineering work, I support artists, designers, and architects in the translation of complex concepts and ideas into realization.

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DIPLOMAS

- 2013 – 2018 PhD, KU Leuven, Faculty of Architecture, Campus Sint-Lucas (Defense August 2018)
- 2013 – 2014 HKU University of the Arts Utrecht, Didactical Competence HBO, Didactical Ability
- 2001 – 2006 Eindhoven University of Technology, ir./ MSc. Architectural Design
- 1997 – 2001 Amsterdam University of Applied Sciences, ing. Building Technology

CERTIFICATES

- 2019 Fontys Academy of Architecture and Urbanism, EAAE Educational Academy, TU Delft University of Technology, Certificate Design Education Training;
- 2013 KU Leuven, Faculty of Architecture, Certificate Research Training Sessions II
- 2012 KU Leuven, Faculty of Architecture, Certificate Research Training Sessions I

WORK EXPERIENCE

- 2019 – present
Fontys, University of Applied Sciences, Master of Architecture
Part-time Teacher Tutor in Architecture
- Fabrication Studio Concrete Formwork
(Construction, Parametric Design, and Digital Fabrication)
 - Fabrication Studio Textile Craft
(Construction, Parametric Design, and Digital Fabrication)
- 2018 – present
KU Leuven, Faculty of Architecture, Campus Sint-Lucas
Part-time Scholar, dr. Assistant
- Post-Doc Research: Knowledge Acquisition in Maker Practices
- 2008 – present
KU Leuven, Faculty of Architecture, Campus Sint-Lucas
Part-time Teacher Researcher in Interior Architecture
- Materials (BIA23)
 - Workshop Structures (BIA33)
 - Elective Lightweight Structures
 - Master Course 'Crafting Research'
 - Educational Master
- 2016 – present
Willem de Kooning Academy, Rotterdam University of Applied Sciences
Part-time Teacher Tutor in Spatial Design
- Materials and Construction (F&F)
 - o Spatial Design - Major 1.1
 - o Spatial Design - Major 1.3
 - o Spatial Design - Major 2.1
 - o Spatial Design - Major 2.2
 - Elective Responsive Textiles
- 2009 – present
Foundation of WorkShop IV
Office for Design and Engineering of non-Conventional Architectural Structures.
- Selection of Projects:
2013 - Sculpture 'Polaris' and 'Armillarium', Michiel Kluiters, Woerden, the Netherlands
2012 - Installation 'Over Cirkels, Mijn Ziel, en A-Coustic, Barbara van Loon, Amsterdam, the Netherlands
2011 - Sculpture 'Pergola', Arjan Karssen, Amsterdam, the Netherlands
2010 - Sculpture 'Het Baken', Maarten de Reus, Emmeloord, the Netherlands
- 2013 – 2018
KU Leuven, Faculty of Architecture, Campus Sint-Lucas
PhD Candidate
- PhD Research: Sensemaking in Construction, the Necessity of Making
- 2011 – 2015
Academy of Architecture, Amsterdam University of the Arts
Part-time Teacher Tutor in Architecture
- Form Studies
 - o Form Study 1 - Observation and Registration
 - o Form Study 2 - Observation and Registration
 - o Form Study 3 - Experimentation
 - o Form Study 5 - Realization

2010 – 2019

HKU University of the Arts Utrecht
Part-time Teacher Tutor in Spatial Design

- Technical Knowledge Development (TKO)
 - o Spatial Design - Bachelor 1
- Professional Technique (Vaktechniek)
 - o Spatial Design - Bachelor 1
 - o Spatial Design - Bachelor 2

2007 – 2009

Eindhoven University of Technology
Part-time Teacher Tutor in Architecture

- Building Technology Studio
 - o 7TM03
 - o 7TM04

2004 – 2008

Tentech B.V., Utrecht
Part-time Designer Engineer of Lightweight Structures

Selection of Projects:

2008 - Recital Pavilion, Dré Wapenaar

2005 - Overkapping Breeplaats Franeker, Architectenbureau Klamer

2004 - APPP, Kerkgebouw Maassluis, Royal Haskoning

SCIENTIFIC PUBLICATIONS

Dissertation

Vrouwe, I. (2018). Sensemaking in Construction; The Necessity of Making. KU Leuven, Faculty of Architecture, Campus Sint-Lucas, Ghent.

Articles

Vrouwe, Ivo, & Luyten, Laurens. (2016). Sensemaking in Construction; Comparing Learning Environments. *Edinburgh Architecture Journal*, 34, 44-62.

Vrouwe, I. (2013). Ideograms as a Tool for Constructive Sensemaking in Architecture Education. *Message Journal*; 2013; Vol. 1; iss. 1; pp. 34 - 43.

Book Chapter

Palmer, Richard, Vrouwe, Ivo, & Pronk, Arno. (2013). AP&P CHURCH. In *Flexible Composite Materials* (pp. 144-149). Birkhäuser; Basel.

Conference Proceedings

Vrouwe, Ivo, Dissaux, Thomas, Jancart, Sylvie, & Stals, Adeline (2020) Concept Learning Through Parametric Design; A Learning Situation Design for Parametric Design in Architectural Studio Education. ECAADE 2020, Online Anthropologic, Architecture and Fabrication in the Cognitive Age, September 16-17, Berlin, Germany.

Vrouwe, Ivo, & Luyten, Laurens (2019) Experience-Based Learning in Construction Education; Testing the Effectiveness of the Product-Oriented Learning Situation. *Structures and Architecture - Bridging the Gap and Crossing Borders. Proceedings of the Fourth International Conference on Structures and Architecture (ICSA 2019)*, July 24-26, 2019, Lisbon, Portugal.

Luyten, Laurens, Vilquin, Thomas, Vrouwe, Ivo, & Verstrynghe, Els. (2016) A comparative study of the physical model as a tool for structural education in architecture and engineering programmes. *Structures and Architecture, Beyond Their Limits*, 806-813.

Vrouwe, Ivo, Luyten, Laurens, & Pak, Burak. (2015) Tools and Strategies for the Analysis and Synthesis of Ill-Defined Construction Problems. *ECAADe 2015 - 33rd Annual Conference 16th-18th September 2015*, 119-126.

Vrouwe, Ivo, & Pak, Burak. (2014) Framing Parametric and Generative Structures A Novel Framework for Analysis and Education. *FUSION: DATA INTEGRATION AT ITS BEST, VOL 1, 1*, 365-371.

Vrouwe, Ivo, & Van Swieten, Peter. (2013) Construction of Parametric Design in Architectural education. *Computation and Performance – Proceedings of the 31st ECAADe Conference*, 1, 703-710.

Vrouwe, Ivo, & Pak, Burak. (2013) Reframing Structures. *Structures and Architecture*, 1295-1302.

Vrouwe, I. (2013) Reframing Structures. *Crafting the Future*, 2013, pp177-177

Vrouwe, I. (2013) Reframing Structures; Reflection on Learning Outcomes, *Proceedings of Knowing by Designing*, Brussels, Belgium.

Vrouwe, I., Pak, B. (2013) Reframing Structures; Frame Experimentation in Artistic Studies, *Proceedings of ICSA 2013*, Guimarães, Portugal.

Vrouwe, I., Feijen, M. (2012) Knowledge Through Use; Construction and Geometrical Experimentation by Paper Modeling, Math Art Summit, Koninklijke Vlaamse Academie van België voor Wetenschappen en Kunsten, Brussels, Belgium.

Feijen, M., Vrouwe, I. (2012) Cold-Bent Single Curved Glass; Opportunities and Challenges in Freeform Facades, Proceedings of the Conference on Architectural and Structural Applications of Glass, Delft, the Netherlands.

Pak, B., Vrouwe, I., Verbeke, J. (2011) Design and Development of Low-Cost Portable Immersive Spaces, Proceedings of ACADIA 2011, Calgary, Alberta, Canada.

Vrouwe, I., Feijen, M., Houtman, R., Borgart, A. (2011) Reframing Textiles into Architectural Systems; Construction of a Membrane Shell by Patchwork, Proceedings of the International Conference on Textile Composites and Inflatable Structures, Barcelona, Spain.

Vrouwe, I. (2011) Research by Application; Reframing Textiles into Architectural Systems, Diversity and Unity: Proceedings of IASDR2011, the 4th World Conference on Design Research, Delft, The Netherlands.

Vrouwe, I., Pronk, A., Feijen, M. (2010) Textile Techniques and Tectonics in Architectures, Proceedings of the International Association for Shell and Spatial Structures (IASS) Symposium, Shanghai, China.

Vrouwe, I. (2007) Mortal Tectonics, Proceedings of Tectonics Making Meaning 2007, Eindhoven, The Netherlands.

Vrouwe, I. (2006) Archimedia, Proceedings of Adaptables 2006, International Conference On Adaptable Building Structures, Eindhoven, The Netherlands.

PUBLICATIONS

Vrouwe, I. (2020) Conceptvorming in constructieonderwijs door bouwen en maken, LESEC Vision2, nr. 15.

Gasparini, K. (2017) Design E Sostenibilità, Tende e Schermature Solari, 1-2017

Vrouwe, I. (2013) Frame Experimentation in Architectural Making, Structures in Building Culture II: Skin and Bones, University of Liechtenstein, Vaduz, Liechtenstein.

Vrouwe, I. (2012) Textiles Revised, Reflections 16, Sint-Lucas Architectuur, Brussels, Belgium.

Vrouwe, I. (2012) Revisiting Woodcraft, Structures in Building Culture: Textonical Shapes of Wood, University of Liechtenstein, Vaduz, Liechtenstein.

Vrouwe, I. (2012) Textiel als Zelfdragend Element, Innovatiecatalogus Stedenbouw en Architectuur, WEKA Uitgeverij, Amsterdam, the Netherlands.

Vrouwe, I. (2009) Het Materiële Experiment, Reflections 11, Sint-Lucas Architectuur, Brussels, Belgium.

Beemster, W. (2007) "Mediatecture: filmische façades", Stedenbouw & architectuur nr. 9

Bruysters, J. (2006) "Architectuur en mediatheorie", bouw IQ nr. 8

Beemster, W. (2006) "De stad als urban catwalk", Stedenbouw & architectuur nr. 9

Kruit, C. (2006) "Dynamische identiteit", dax nr. 8

EXHIBITIONS

Solo Exhibitions

- 2011 Stageability 4D, Opperclaes, Rotterdam, the Netherlands
- 2009 Stageability, SingerSweatShop, Rotterdam, the Netherlands
- 2009 Cubes and Wires, NAI, Rotterdam, the Netherlands
- 2008 ConClub NYE, de Unie, Rotterdam, the Netherlands
- 2008 Mañana 07, Gallery Mañana, Rotterdam, the Netherlands
- 2007 Echt in vorm, ABC Architectuurcentrum, Haarlem, the Netherlands
- 2006 Een groot denkraam, ABC Architectuurcentrum, Haarlem, the Netherlands
- 2006 Adaptables2006, Technische Universiteit, Eindhoven, the Netherlands

Group Exhibitions

- 2018 ART01080, Stormpolder, Krimpen aan den IJssel, the Netherlands
- 2013 Motel Mozaïque, Rotterdamse Schouwburg, Rotterdam, the Netherlands
- 2011 Invisible City, Ruimte in Beweging, Schiedam, the Netherlands
- 2011 Open Dans 2011, Ro Theater, Rotterdam, the Netherlands
- 2010 Open Dans 2010, Las Palmas, Rotterdam, the Netherlands
- 2010 TEST EXTRA, Nutshuis, Den Haag, the Netherlands
- 2009 "Salon de Karton", Kelderman en van Noort, Eindhoven, the Netherlands
- 2009 Educatief programma BLURRR, TENT., Rotterdam, the Netherlands
- 2007 Pre-selection archiprix TU/e, Eindhoven, the Netherlands
- 2007 Architecture.ehv, Eindhoven, the Netherlands
- 2007 Ephemeral Architecture, Time and textiles, Politecnico di Milano, Milan, Italy
- 2006 Expo 02, Milan Furniture Fair 2006, Milan, Italy
- 2005 Expo 01, Milan Furniture Fair 2006, Milan, Italy

EDUCATIONAL PROJECTS AND SUMMER SCHOOLS

- 2019 Building Bridges, Dag van de Wetenschap, Ghent, Belgium
- 2019 Construction Studio, Brno University of Technology, Faculty of Architecture, Brno, Czech
- 2019 Metal Craft Workshop, Makerspace Bouwkeet, Rotterdam, the Netherlands
- 2016 Wood Craft Workshop, Makerspace Bouwkeet, Rotterdam, the Netherlands
- 2012 Erasmus Intensive Program – Tectonics: Skins & Bones, Gdansk, Poland
- 2012 Folding Structures, Dagen van de Wiskunst, Ghent, Belgium
- 2012 Origami Structures, Wetenschapsweek, Ghent, Belgium
- 2011 Erasmus Intensive Program – Tectonics: Wood, Amay, Belgium
- 2011 Inflatables Structures, Wetenschapsweek, Ghent, Belgium

RESEARCH PROJECTS

- 2019 - 2020 Solidair Mobiel Wonen, Burak Pak, Ghent, Belgium
(Collaborative Design and Construction of Social Space)

MASTER THESIS CO-SUPERVISION

- 2007 – 2008 Adriaan Verheij, Gemeentehuis Boxmeer een (niet-)alledaagse outfit voor een alledaags gebouw, Eindhoven University, the Netherlands

MASTER THESIS SUPERVISION

- 2018 - 2019 Tijs Dehaeze, Crafting Research, Wood Bending, Leuven University, Belgium
- 2018 - 2019 Nicolas Beckers, Crafting Research, Sjorren, omkeerbare hout-touw verbindingen, Leuven University, Belgium

PHD CO-SUPERVISION

- 2020 - 2024 Öykü Acican, Experiential Learning of Structures by Comparative Structural Analysis of Parametric Design, KU Leuven, Faculty of Architecture, Ghent, Belgium

ORGANIZATION OF CONFERENCES AND WORKSHOPS

- 2019 Matters of Abstraction 2019, Faculté d'Architecture Liège, Liège, Belgium
- 2018 Matters of Abstraction 2018, ULB Faculty of Architecture, Brussels, Belgium
- 2017 Matters of Abstraction 2017, KU Leuven, Faculty of Architecture, Brussels, Belgium

GRANTS

2019 - 2020

WOLT Research Voucher, Hogeschool Rotterdam

2008 - 2009

Fonds Beeldende Kunst, Vormgeving, en Bouwkunst (BKVB) - Stimuleringssubsidie