

## 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.

## TABLE OF CONTENT

PROFILE.....	1
DIPLOMAS.....	2
CERTIFICATES.....	2
WORK EXPERIENCE .....	3
SCIENTIFIC PUBLICATIONS.....	4
Dissertation .....	4
Articles.....	4
Book Chapter.....	4
Conference Proceedings .....	4
PUBLICATIONS .....	5
EXHIBITIONS .....	6
Solo Exhibitions .....	6
Group Exhibitions.....	6
EDUCATIONAL PROJECTS AND SUMMER SCHOOLS .....	7
GRANTS.....	7

## **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 (Construction, Parametric Design, and Digital Fabrication)
- 2018 – present      KU Leuven, Faculty of Architecture, Campus Sint-Lucas  
Part-time Scholar, dr. Assistant
- Post-Doc Research
- 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)
- 2009 – present      Foundation of WorkShop IV  
Office for Design and Engineering of non-Conventional Architectural Structures.
- 2013 – 2018      KU Leuven, Faculty of Architecture, Campus Sint-Lucas  
PhD Candidate
- PhD Research
- 2011 – 2015      Academy of Architecture, Amsterdam University of the Arts  
Part-time Teacher Tutor in Architecture
- Form Studies
- 2010 – 2019      HKU University of the Arts Utrecht  
Part-time Teacher Tutor in Spatial Design
- Technical Knowledge Development (TKO)
  - Professional Technique (Vaktechniek)
- 2007 – 2009      Eindhoven University of Technology  
Part-time Teacher Tutor in Architecture
- Building Technology Studio
- 2004 – 2008      Tentech B.V., Utrecht  
Part-time Designer Engineer of Lightweight Structures

## 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, & 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, & Verstrynge, 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 Adaptable 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
- 2009 Stageability, SingerSweatShop, Rotterdam
- 2009 Cubes and Wires, NAI, Rotterdam
- 2008 ConClub NYE, de Unie, Rotterdam
- 2008 Mañana 07, Gallery Mañana, Rotterdam
- 2007 Echt in vorm, ABC Architectuurcentrum, Haarlem
- 2006 Een groot denkraam, ABC Architectuurcentrum, Haarlem
- 2006 Adaptables2006, Technische Universiteit, Eindhoven

### **Group Exhibitions**

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

## **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
- 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

## **GRANTS**

- 2019 WOLT Research Voucher, Hogeschool Rotterdam
- 2008 – 2009 Fonds Beeldende Kunst, Vormgeving, en Bouwkunst (BKVB) - Stimuleringsubsidie