

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 HKU Utrecht University of the Arts Utrecht. 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 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.

EDUCATION

2013 – 2018 PhD, KU Leuven, Faculty of Architecture, Campus Sint-Lucas (Defense August 2018)
2001 – 2006 Eindhoven University of Technology, ir./ MSc. Architectural Design
1997 – 2001 Amsterdam University of Applied Sciences, ing. Building Technology

ADDITIONAL EDUCATION

2013 – 2014 HKU University of the Arts Utrecht, Didactical Competence HBO, Didactical Ability
2011 – 2012 KU Leuven, Faculty of Architecture, Research Training Sessions I&II

WORK EXPERIENCE

- 2016 – present Willem de Kooning Academy, Rotterdam University of Applied Sciences
Part-time Teacher Tutor in Spatial Design
- Materials and Construction (F&F)
- 2011 – 2015 Academy of Architecture, Amsterdam University of the Arts
Part-time Teacher Tutor in Architecture
- Form Studies
- 2010 – present HKU University of the Arts Utrecht
Part-time Teacher Tutor in Spatial Design
- Technical Knowledge Development (TKO)
 - Professional Technique (Vaktechniek)
- 2009 – present Foundation of WorkShop IV
Office for Design and Engineering of non-Conventional Architectural Structures.
- 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
- 2007 – 2009 Eindhoven University of Technology
Part-time Teacher Tutor in Architecture
- Project Building Technology
- 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.

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

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) Reframing Structures. *Computation and Performance – Proceedings of the 31st ECAADe Conference*, 1, 703-710.

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

Verbeke, Johan, & Pak, Burak. (2013) Reframing Architecture. *Knowing (by) Designing. Proceedings of the Conference 'Knowing (by) Designing' at LUCA, Sint-Lucas School of Architecture Brussels, 22-23 May 2013*, 501-507.

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 ICESA 2013, Guimarães, Portugal*.

Vrouwe, I., van Swieten, P. (2013) Construction of Parametric Design in Architectural education, *Proceedings of eCAADe 2013, Delft, the Netherlands*.

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

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

- 2016 ART01080, Stormpolder, Krimpen aan den IJssel
- 2013 Motel Mozaique, 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

GRANTS

- 2008 – 2009 Fonds Beeldende Kunst, Vormgeving, en Bouwkunst (BKVB) - Stimuleringssubsidie