

## CURRICULUM VITAE

Name: Ivo Vrouwe  
Date of Birth: 02-07-1979, Amsterdam  
Nationality: Dutch  
Personal E-Mail: [info@ivovrouwe.net](mailto:info@ivovrouwe.net)  
KU Leuven E-Mail: [ivo.vrouwe@kuleuven.be](mailto:ivo.vrouwe@kuleuven.be)  
WdKA E-Mail: [i.vrouwe@hr.nl](mailto:i.vrouwe@hr.nl)  
Fontys E-Mail: [i.vrouwe@fontys.nl](mailto:i.vrouwe@fontys.nl)



## PROFILE

I work as a lecturer and researcher at KU Leuven (Faculty of Architecture, Campus Sint-Lucas), Rotterdam University of Applied Sciences Rotterdam (Willem de Kooning Academy), 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 practice-oriented knowledge management, conceptual and blended learning, and multidisciplinary practices. In my PhD thesis, various active 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 (Defence 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**

- 2020 Rotterdam University of Applied Sciences, Willem de Kooning Academy, Competency Assessor Training
- 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

- 2022 – present  
KU Leuven, Faculty of Architecture, Campus Sint-Lucas  
Part-time Lecturer Educational Master Design Sciences
- Education and Cognition
  - Active Learning
  - Blended Learning
- 2021 – present  
Rotterdam University of Applied Sciences  
Part-time Researcher Werkplaats Onderwijs-Leertechnologie (WOLT)
- Practice-Oriented Information Transfer (POInT.)
- 2019 – present  
Fontys, University of Applied Sciences, Master of Architecture  
Part-time Lecturer Tutor in Architecture
- Fabrication Studio Brick and Mortar 2021  
(Construction, Parametric Design, and Digital Fabrication)
  - Fabrication Studio Concrete Formwork 2020  
(Construction, Parametric Design, and Digital Fabrication)
  - Fabrication Studio Textile Craft 2019  
(Construction, Parametric Design, and Digital Fabrication)
- 2018 – present  
KU Leuven, Faculty of Architecture, Campus Sint-Lucas  
Part-time Lecturer, dr. Assistent
- Post-Doc Research: Practice-Oriented Knowledge Management
- 2016 – present  
Willem de Kooning Academy, Rotterdam University of Applied Sciences  
Part-time Lecturer 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
- 2008 – 2022  
KU Leuven, Faculty of Architecture, Campus Sint-Lucas  
Part-time Lecturer Researcher in Interior Architecture
- Materials (BIA23)
  - Workshop Structures (BIA33)
  - Elective Lightweight Structures
  - Master Course 'Crafting Research'
  - Educational Master

- 2021 – 2021 Willem de Kooning Academy, Rotterdam University of Applied Sciences  
Part-time Researcher Education Station
- Blended Learning in the Workshop
- 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 Lecturer 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 Lecturer 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 Lecturer 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

## **AFFILIATIONS**

- 2021 – present      European Association of Architectural Education (EAAE)  
Educational Academy  
  
Affiliation: Organization and development  
Theme: Teaching the Teachers Pedagogical Track
- 2021 – present      Werkplaats Onderwijs-Leertechnologie (WOLT)  
Hogeschool Rotterdam  
  
Affiliation: Research and development  
Theme: Practice-Oriented Information Transfer
- 2021 – present      Werkplaats Inclusieve Pedagogiek en Didactiek (IPD)  
Hogeschool Rotterdam  
  
Affiliation: Research and development  
Theme: Practice-Oriented Information Transfer
- 2020 – present      LESEC Research Group  
KU Leuven  
  
Affiliation: Postdoc Researcher  
Theme: Learning for Understanding in STEAM
- 2017 – present      Matters of Abstraction Workshop Conference  
KU Leuven, Faculty of Architecture, Campus Sint-Lucas  
  
Affiliation; Chair, Organization, and development
- 2013 – present      BRIDGES Research Group  
KU Leuven, Faculty of Architecture, Campus Sint-Lucas  
  
Affiliation: Postdoc Researcher
- 2020 – 2022      40th Education and research in Computer Aided Architectural Design in Europe  
(eCAADe) Conference  
  
Affiliation: Conference Team, Scientific Committee, Session Chair VR in Education,  
Session Chair Digital Fabrication in Education
- 2015      34th Education and research in Computer Aided Architectural Design in Europe  
(eCAADe) Conference  
  
Affiliation: Scientific Committee, Session Chair Pedagogy

## **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, Osinga, Dirk (2022) The Fabrication Studio; A learning situation design for complex problem-solving through digital design, materialization, and construction. ECAADE 2022, Co-creating the Future; Inclusion in and through Design, September 13-16, Ghent, Belgium.

Vrouwe, Ivo, & Kristek, Jan (2022) The Construction Studio; An integrated pedagogical approach to architecture education. Proceedings of the Fifth International Conference on Structures and Architecture (ICSA 2022), July 06-08, 2022, Aalborg, Denmark.

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 ICOSA 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, 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**

- 2020 WOLT Voucher Presentations, Hogeschool Rotterdam
- 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**

- 2022 Young Voices in Architecture Education, Brno University of Technology, Faculty of Architecture, Brno, Czech
- 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**

- 2020 - present Knowledge Management and Online Craft Collaboration, Textiellab, Tilburg
- 2021 Blended Learning in Craft Education, Willem de Kooning Academy, Rotterdam
- 2019 - 2020 Solidair Mobiel Wonen, Burak Pak, Ghent, Belgium  
(Collaborative Design and Construction of Social Space)

### **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

### **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

### **MASTER THESIS CO-SUPERVISION**

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

### **ORGANIZATION OF CONFERENCES AND WORKSHOPS**

- 2021 Matters of Abstraction 2021, KU Leuven, Faculty of Architecture, Online
- 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