

CV CATHERINE DE WOLF

Email address dewolf.catherine@gmail.com
Snail mail address 91 Boomkleverlaan, 1150 Brussel, Belgium

EDUCATION

- 2014 - 2017 **Doctor of Philosophy (PhD) Candidate in Building Technology**
Dept. of Architecture, Massachusetts Institute of Technology (MIT; Cambridge, US)
- Visiting researcher at University of Cambridge, January – August 2016
 - *Dissertation:* Low carbon pathways for structural design – Embodied life cycle impact of building structures
 - *Advisor:* Prof. John Ochsendorf
- 2012 - 2014 **Master of Science Building Technology**
Dept. of Architecture, MIT (Cambridge, US)
- *GPA 5.0 / 5.0*, Master of Science, June 2014
 - *Thesis:* Material quantities in building structures and their environmental impact
 - *Advisor:* Prof. John Ochsendorf
- Summer 2013 **Local Economic Development Project South Africa**
Centre for Real Estate, MIT / University of Kwazulu-Natal (Durban, SA)
- *Team:* graduates, postgraduates, professors & entrepreneurs
 - *Summary:* Proposed housing retrofitting in townships
 - *Supervisor:* Prof. John Kennedy
- 2010 - 2012 **Master of Science Civil Engineering & Architecture**
Vrije Universiteit Brussel (VUB) / Université Libre de Bruxelles (ULB; Brussels, BE)
- *Double Diploma with Highest Distinction (summa cum laude)*
 - *Thesis:* Life Cycle Design – How can interactions between buildings, components and materials support design for re-use through sustainable material management?
 - *Advisor:* Prof. Niels De Temmerman
- Summer 2011 **European Summer School on Construction History**
University of Cambridge (Cambridge, UK)
- *Topic:* Conquering new spheres - Two millennia of vaults, domes and shells
 - *Project:* Controversy on the load bearing behaviour of the Risorgimento bridge
 - *Advisor:* Prof. Bernard Espion
- 2007 - 2010 **Bachelor of Science Civil Engineering & Architecture**
VUB / ULB (Brussels, BE)
- *High Distinction (magna cum laude)*
 - *Selected Project 1:* Zero Energy Building technologies, with Jacob Thiry
 - *Selected Project 2:* Compare building physics in two case studies, with Sébastien Wtoreck

RESEARCH EXPERIENCE

- 2017 - 2018 **Low carbon structural design in Structural Xploration Lab (SXL) – smart living lab**
Ecole Polytechnique Fédérale de Lausanne (EPFL) (Fribourg, CH)
- Marie Sklodowska-Curie Postdoctoral Fellow & Swiss Government Excellence Scholarship
 - *Summary:* Studied environmental impact of structural design (European Commission)
 - *Supervisors:* Prof. Corentin Fivet
- 2016 – 2018 **Structural Engineers 2050 Commitment**
Carbon Leadership Forum, University of Washington (Seattle, US)
- Committee Member and Founder
 - *Summary:* Leading the initiative to inspire structural engineers to lower their impact
 - *Co-members:* Kathrina Simonen, Amy Hattan, Frances Yang, Duncan Cox
- 2016 **Implementing Whole Life Carbon in Buildings**
University of Cambridge (Cambridge, UK)
- Research Assistant
 - *Summary:* Collaborated with five leading industry practitioners on their carbon assessments
 - *Supervisors:* Dr. Alice Moncaster and Prof. Peter Guthrie
- 2013 – 2015 **Building energy and whole life cycle carbon**
Kuwait Institute for Scientific Research (KISR), Kuwait University (Kuwait City, KW)
- Research Assistant in collaboration between MIT and Kuwait
 - *Summary:* Developed tools to analyse the energy efficiency of buildings and cities
 - *Supervisors:* Prof. Oral Buyukozturk, Prof. John Ochsendorf and Prof. Christoph Reinhart
- 2014 – 2015 **Environmental impact of bridges and other infrastructure projects**
Ney & Partners (Brussels, BE)
- Engineering intern and visiting researcher
 - *Summary:* Compared the embodied carbon of bridges and traffic and maintenance impact
 - *Supervisor:* Kenny Verbeeck
- Summer 2015 **Whole life cycle carbon of environmentally exemplary projects**
Helionix Designs (St Margaret's Bay, UK)
- Consultant engineering intern and visiting researcher
 - *Summary:* Compared the whole life cycle carbon of Helionix buildings
 - *Supervisor:* Marc Carey
- 2014 – 2015 **Material flows of African cities**
MIT (Cambridge, US) & Stellenbosch University (Stellenbosch, SA)
- Researcher and workshop participant on urban metabolism for African cities
 - *Summary:* Interviewed stakeholders on material flows in African context
 - *Supervisor:* Prof. John Fernández
- 2013 – 2014 **Structural engineering, construction materials, and sustainability database**
Arup (London, UK & San Francisco, US)
- Visiting researcher in Materials Consulting (London) & Structures and Sustainability (San Francisco)
 - *Summary:* Worked with leading designers on embodied carbon in materials and building structures
 - *Supervisor:* Andrea Charlson and Kristian Steele (London) & Frances Yang (San Francisco)

TEACHING & MENTORING EXPERIENCE

2015 – 2017 **Instructor**

Université du Littoral

- Taught an 18-hour class on calculating both operational and embodied energy
- *Class:* Environmental Impact of Buildings
- *Program:* Master of Environmental Management

2014 - 2016 **Invited Lecturer**

MIT (Cambridge, US), Dept. of Architecture & Civil and Environmental Engineering

- Fall 2015 • *Class:* Modeling and Analysis of Structures – *Instructor:* Prof. Corentin Fivet
- Fall 2014–2016 • *Class:* Building Structural Systems II – *Instructor:* Prof. Caitlin Mueller
- Fall 2014 • *Class:* Senior Civil and Environmental Engineering Design – *Instructor:* Prof. Caitlin Mueller

2013 – 2016 **Teaching Assistant**

MIT (Cambridge, US), Dept. of Architecture & Civil and Environmental Engineering

- Fall 2016 • Analysis of Historic Structures – *Instructor:* Prof. John Ochsendorf
- Fall 2013 • Building Structural Systems II (Advanced Structures & Envelope Design), Skyscraper Design – *Instructors:* Prof. John Ochsendorf and Andrea Love

2013 – 2016 **Supervisor Undergraduate Research Opportunities Program (UROP)**

MIT

- Wesley K Lau, “Life cycle impacts of tall and slender buildings”
- Julia Hogroian, “Comparing carbon in case studies” and “Material quantities in stadia”
- Tess Hagerty, “Theoretical material quantities in low-rise concrete buildings”
- Jenny Liu, “Life cycle impact of cultural buildings”
- Illili Tegene, “Material quantities in concrete frame buildings”
- Chrystal Chern, “Defining the carbon footprint of materials”
- Eleanor Pence “Development of interactive, relational databases”

2014 – 2015 **Supervisor of Master theses**

MIT

- Co-supervised thesis for Master of Engineering: Rosalie Bianquis, “Assessment Methodology for Environmental Impact of Bridges” with Prof. John Ochsendorf
- Co-mentored graduate work on sustainable construction in the International Design Center and Building Technology with Prof. John Fernández in collaboration with ETH Zurich

2013 – 2015 **Invited Design Studio Jury Member**

MIT, Dept. of Architecture & Civil and Environmental Engineering

- Fall 2015 • *Class:* Architecture Design Option Studio – *Instructor:* Prof. Alexander D’Hooghe
- Fall 2014 • *Class:* Arch. Design Core 3 Studio – *Instructors:* Prof. Sheila Kennedy, Prof. Caitlin Mueller
- Fall 2013 • *Class:* Building Structural Systems II – *Instructor:* Prof. John Ochsendorf

2014 **Supervisor of Graduate Research Projects**

MIT, Dept. of Civil and Environmental Engineering

- Kam-Ming Mark Tam, Xiaoxiao Wu, Wenjia Gu, “Comparing embodied carbon in tall buildings,” Design for Sustainability project
- Nathaniel Lyon, Rosalie Bianquis, Emily Spencer, Abram Wasef, “Estimating the whole life cycle impact of footbridges,” Design for Sustainability project

PROFESSIONAL EXPERIENCE

Industry

- Summer 2015 Consultant Engineer at Helionix Designs (St Margaret's Bay, UK)
- Extended embodied carbon of materials to buildings
 - *Supervisor:* Mark Carey
- Summer 2014 Engineer at Ney & Partners (Brussels, BE)
- Evaluated the environmental impact of bridges and other infrastructure projects
 - *Supervisor:* Kenny Verbeeck
- 2013 – 2014 Visiting Researcher at Arup (London, UK; San Francisco, US)
- Collaborated with leading practitioners in embodied carbon
 - *Supervisors:* Frances Yang and Andrea Charlson
- Summer 2011 Architectural Intern at Modulo Architects (Brussels, BE)
- Worked on a school design competition and performed site visits
 - *Supervisors:* Olivier Adam, Olivier Barré and Pierre Spruytte
- 2010 – 2012 Book Editor at ULB (Brussels, BE)
- “Analysis of Global Risk in High Rise Buildings” and “Major Construction Projects”
 - Co-editors: Prof. Y. Rammer and Dr. Y. Dechamps
- Summers 2009 – 2010 CAD Designer at Royal Institute of Natural Sciences (Brussels, BE)
- Measured & integrated buildings in Computer Aided Design drawings
 - *Supervisor:* Gilbert Claes

Research

(see Research Experience)

- 2017 – 2018 Postdoctoral Scientist at EPFL (Fribourg, CH)
- In collaboration with Conzett Bronzini Partner, European Commission & ETH Zurich at SXL
 - *Supervisor:* Prof. Corentin Fivet
- 2016 Research Assistant at University of Cambridge (Cambridge, UK)
- In collaboration with architects, civil and environmental engineers, consultants
 - *Supervisors:* Prof. Peter Guthrie and Dr. Alice Moncaster
- 2013 – 2015 Research Assistant at MIT (Cambridge, US), KISR & Kuwait University (Kuwait City, KW)
- In collaboration with architects, civil and environmental engineers
 - *Supervisors:* Prof. Oral Buyukozturk, Prof. John Ochsendorf, Prof. Christoph Reinhart

Teaching

(see Teaching and Mentoring Experience)

- 2015 – 2017 Instructor at Université du Littoral (Dunkerque, FR)
- Environmental Impact of Buildings
 - *Instructor:* Catherine De Wolf
- Fall 2016 Teaching Assistant at MIT, Dept. of Civil and Environmental Engineering
- Analysis of Historic Structures
 - *Instructor:* Prof. John Ochsendorf
- Fall 2013 Teaching Assistant at MIT, Dept. of Architecture & Civil and Environmental Engineering
- Building Structural Systems II (Advanced Structures & Envelope Design)
 - *Instructor:* Prof. John Ochsendorf and Andrea Love

PUBLICATIONS

Journal Papers

- 2018 Building and Environment
Moncaster, A., Pomponi, F., De Wolf, C., Ochsendorf, J., Guthrie, P., “The impact of carbon calculation decisions on structural material choice,” *Building and Environment*, 2018 (in preparation).
- 2018 Special Issue of Energy and Buildings
Pomponi, F., Moncaster, A., De Wolf, C., “Furthering embodied carbon assessment in practice: results of an industry-academia collaborative research project,” *Special Issue of Energy and Buildings on Embodied Energy and Carbon Efficiency*, 2017 (under review).
- 2017 Journal of Cleaner Production
Kupwade-Patil, K., De Wolf, C., Chin, S., Ochsendorf, J., Büyüköztürk, O., “Embodied Energy for Partial Replacement of Ordinary Portland Cement with Natural Pozzolanitic Volcanic Ash,” *Journal of Cleaner Production*, 2017 (under review).
- 2017 Journal of Technology | Architecture + Design (TAD)
Simonen, K., Rodriguez, B., De Wolf, C., “Benchmarking the Embodied Carbon of Buildings,” *TAD*, Vol. 1, Issue 2, 2017, 88-98.
- 2017 Energy
De Wolf, C., Cerezo, C., Murthadhawi, Z., Hajiah, A., Al Mumin, A., Ochsendorf, J., Reinhart C., “Life cycle building impact of a Middle Eastern residential neighbourhood,” *Energy*, Vol. 134, 2017, 336-348, DOI: <http://10.1016/j.energy.2017.06.026>.
- 2017 Energy and Buildings
De Wolf, C., Pomponi, F., Moncaster, A., “Measuring embodied carbon of buildings; a review and critique of current industry practice,” *Energy and Buildings*, Vol. 140, No. 1 April 2017, 68-80, DOI: [10.1016/j.enbuild.2017.01.075](https://doi.org/10.1016/j.enbuild.2017.01.075).
- 2016 Journal of the IASS
De Wolf, C., Ramage, M., Ochsendorf, J., “Low Carbon Vaulted Masonry Structures,” *Journal of the IASS*, Vol. 57, No. 4, December n. 190, 2016, 275-284.
- 2016 Institution of Civil Engineers (ICE) Engineering Sustainability
De Wolf, C., Yang, F., Cox, D., Charlson, A., Hattan, A., Ochsendorf, J., “Material quantities and embodied carbon dioxide in structures,” *ICE Journal of Engineering Sustainability*, Vol. 169, Issue ES4, 2016, 150-161, DOI: [10.1680/ensu.15.00033](https://doi.org/10.1680/ensu.15.00033).
- 2014 Invited Paper – The Structural Engineer
De Wolf, C., Ochsendorf, J., “Participating in an Embodied Carbon Database,” *The Structural Engineer*, February Issue, 2014, pp. 30-31.

Books

- 2017 Embodied Carbon in Buildings: Measurement, Management, and Mitigation
Pomponi, F., De Wolf, C., Moncaster, A. (ed.) “Embodied Carbon in Buildings: Measurement, Management, and Mitigation,” *Springer*, Berlin, Germany, 2017 (in preparation)
- Book chapter: Moncaster, A., Sturgis, S., De Wolf, C., Pomponi, F., Papakosta, A., “Measurement of Embodied and Whole Life Carbon of Buildings”
 - Book chapter: De Wolf, C., Simonen, K., Ochsendorf, J., “Initiatives to Report and Reduce Embodied Carbon in Buildings in North America”
- 2017 New Carbon Architecture
King, B. (ed.) “New Carbon Architecture”, *New Society Publishers*, Canada, 2017 (in preparation)
- Book chapter: De Wolf, C., Droguett, B.R., and Simonen, K., “Counting Carbon – What We Know and How We Know It”
- 2011 Analysis of Global Risk in High Rise Buildings
Rammer, Y., Dechamps, Y., De Wolf, C. (ed.) “Analysis of Global Risk in High Rise Buildings,” *VUB, ULB, Association des Entrepreneur Belges*, Brussels, Belgium, April 30, 2011, 302p.

Conference Papers

- 2016 IASS Tokyo
De Wolf, C., Ramage, M., Ochsendorf, J., “Low Carbon Vaulted Masonry Structures,” *Proceedings of the IASS*, Tokyo, JP, September 26-30, 2016.
- 2016 Sustainable Built Environment (SBE) Zurich
De Wolf, C., Bird, K., Ochsendorf, J., “Material quantities and embodied carbon in exemplary low-carbon case studies,” *SBE Zurich*, Zurich, CH, June 13-17, 2016.
- 2015 IABSE Geneva
De Wolf, C., Verbeeck, K., Ochsendorf, J., “The environmental impact of bridges,” *IABSE Geneva*, Geneva, CH, September 23-25, 2015.
- 2015 IASS Amsterdam
Iuorio, O., De Wolf, C., Ochsendorf, J., “Embodied carbon of long span roofs,” *Proceedings of the IASS*, Amsterdam, NL, August 17-20, 2015.
- 2015 Contour École Polytechnique Fédérale de Lausanne (EPFL)
Göswein, V., De Wolf, C., Fernández, J., “Material flows and embodied carbon of residential buildings in African Cities,” *Contour EPFL - Agency/ Agents of Urbanity*, Lausanne, CH, June 1-2, 2015.
- 2014 IASS Brasilia
De Wolf, C., Hogroian, J., Ochsendorf, J., “Comparing material quantities and embodied carbon in stadia,” *Proceedings of the IASS*, Brasilia, BR, September 17, 2014.
- 2014 Sustainable Structures Symposium Portland
De Wolf, C., Iuorio, O., Ochsendorf, J., “Structural Material Quantities and Embodied Carbon Coefficients: Challenges and Opportunities,” *Proceedings of the Sustainable Structures Symposium*, Corey Griffin (ed.), Portland State University, Portland, US, April 18, 2014.

Posters

- 2016 Sustainable Built Environment (SBE) Zurich
De Wolf, C., Bird, K., Ochsendorf, J., “Material quantities and embodied carbon in exemplary low-carbon case studies,” *SBE Zurich*, Zurich, CH, June 13-17, 2016.
- 2015 Infrastructure Innovation in a Changing Environment Conference (2 posters)
- Hogroian, J., De Wolf, C., Ochsendorf, J., “Comparing material quantities and embodied carbon in stadia,” MIT, US, November 20, 2015.
 - Cin, S., Kupwade-Patil, K., De Wolf, C., Büyükoztürk, O., Ochsendorf, J., “Embodied carbon emissions for partial replacement of Ordinary Portland Cement (OPC) with natural pozzolanic volcanic ash,” MIT, US, November 20, 2015.
- 2014 Structures Congress
De Wolf, C., Ochsendorf, J., Yang, F., Werner, W. “Survey of Material Quantities and Embodied Carbon of buildings structures,” *Structures Congress*, Boston, USA, April 4, 2014.

General Press

- 2016 Joint Research Centre (JRC) at the European Commission
Contributed to “Evidence for the potential for structural design optimisation to reduce material mass” report for the European Union
- 2015 – 2017 Selected Bilingual columns (Dutch and French) for Architectura.be
- Jan. 2017 Tall timber structures
- Oct. 2016 Life Cycle Assessment
- Aug. 2016 Databases and methods for the environmental impact of buildings
- June 2016 Why do architects compute the environmental impact of construction materials?
- Mar. 2016 Cradle to Grave
- Jan. 2016 What happens to stadiums after the Games?
- Oct. 2015 Learning sustainable design while traveling
- Sept. 2015 Learning engineering in a history book

PRESENTATIONS

Industry workshops and professional presentations

- 2017 Carbon Footprint and LCA Seminar at EURAC Research
“Whole life cycle embodied carbon in building structures” – *RESTORE*, Bolzano, IT, July 25, 2017
- 2016 Emerging Leaders Conference at European Parliament
“Environmental impact of buildings” – *European Parliament*, Brussels, BE, Nov. 28, 2016
- 2015 Workshop embodied carbon at Thornton Tomasetti and Weidlinger
“Workshop on calculating embodied carbon in buildings” – *New York City office*, Oct. 8, 2015
- 2014 Professional presentation at Ney & Partners
“The environmental impact of bridges” – *Ney & Partners*, Brussels, BE, Aug. 21, 2014
- 2013 Professional presentation at SOM
“Evaluating embodied carbon in building structures” – *SOM*, Chicago, US, May 12, 2014
- 2014 PechaKucha for the embodied carbon week at Arup
“Embodied Carbon. What is your priority?” – London, UK, April 7, 2014
- 2014 Structures Congress
“Survey of embodied carbon in structures” – *Structures Congress*, Boston, US, April 4, 2014
- 2013 Professional presentation at Arup
“Embodied carbon: meeting of the minds and collaboration opportunities” – *MIT, Arup, SOM, Webcor*, San Francisco, US, July 10, 2013, presenting with F. Yang, D. Shook and P. Williams

Conference presentations (see publications) and academic presentations

- 2017 Politecnico di Milano
“Carbon footprint of the built environment: embodied carbon analysis to evaluate the environmental impact of building materials and components” – ABC PhD OPENTalks, *Politecnico di Milano*, Milan, IT, July 24, 2017
- 2017 Imperial College London
“The environmental impact of buildings” – Structures Seminar, *Imperial College London*, London, UK, Feb. 1, 2017
- 2016 IASS Tokyo • **Hangai Prize**
“Low Carbon Vaulted Masonry Structures” – Plenary Session, *Tokyo University*, Tokyo, JP, Sept. 30, 2016
- 2016 Embodied Carbon and Energy Symposium, University of Cambridge
“Implementing Whole Life Embodied Carbon in Buildings” – *University of Cambridge*, Cambridge, UK, 11 April, 2016, presenting and co-organizing symposium
- 2016 ISIE Americas
“Implementing Whole Life Embodied Carbon in Buildings” – *Universidad de Los Andes*, Bogota, CO, 24-27 May 2016
- 2015 Integrated Design Architecture and Sustainability (IDEAS) talk, EPFL
“Low carbon pathways for structural design” – *EPFL*, Lausanne, CH, June 1, 2015
- 2015 ISIE, Taking Stock of Industrial Ecology, University of Surrey
“Retrofit Rethink: Material Flows for Housing in African Cities” – *University of Surrey*, Guildford, UK, 7-10 July 2015, with C. Loggia
- 2015 Contour EPFL
“Material flows of residential buildings” – *EPFL*, Lausanne, CH, May 31, 2015, with V. Göswein
- 2014 IASS Brasilia
“Comparing material quantities and embodied carbon in stadia.” – *Ulysses Guimarães Convention Center*, Brasilia, BR, 15-19 Sept. 2014
- 2014 Sustainable Structures Symposium, Portland State University • **Young Researcher Award**
“Material Quantities and Embodied Carbon Coefficients: Challenges and Opportunities” – *Portland State University*, Portland, US, April 18, 2014

General audience

- 2017 Green MIND University, BE
“Low carbon pathways for structural design” – *Greenfish, WBI, Tweed, Greenwin*, May 10, 2017
- 2015 Innovators under 35, BE • **Innovators under 35 Belgium Award**
“Pitch for low embodied carbon design tool” – *Innovators Under 35 Belgium*, May 20, 2015
- 2015 TEDx talk at Panthéon-Sorbonne, FR
“Les nouveaux matériaux (new materials)” – *Technology-Entertainment-Design (TEDx) talk*, May 16, 2015

RECOGNITION

Awards and honours

- 2016 Hangai Prize, IASS
For talented young researchers, designers, & engineers in the field of shell & spatial structures
- 2015 Innovators Under 35 Belgium Award, MIT Technology Review
For developing a database assessing embodied carbon in existing buildings
- 2014 Young Researcher Award, Portland State University
For paper presented at the Sustainable Structures Symposium
- 2012 Highest Honours (Summa Cum Laude), VUB / ULB
Ranked 1st of class for Master of Science Civil Engineering & Architecture

Fellowships

- 2017 – 2019 EPFL Fellows co-funded by Marie Skłodowska-Curie Postdoctoral Fellowship
For post-doctoral training at EPFL, funded by the European Commission
- 2017 – 2019 Swiss Government Excellence Scholarship
For post-doctoral training of international researchers in the Swiss Confederation
- 2015 – 2017 World Excellence Fellowship, Wallonie-Bruxelles International (WBI)
For doctoral and post-doctoral training abroad
- 2014 – 2015 MIT Presidential Fellowship
President/Provost select candidates nominated by Dean/Department Head
- 2012 – 2013 Gustave Boël – Sofina Fellowship
For talented students to go abroad for research, Platform for Education and Talent
- 2012 – 2013 Belgian American Education Foundation (B.A.E.F.) Fellowship
For outstanding Belgian students to study in a top US university
- 2012 – 2013 MIT Fellowship Award, Building Technology, Department of Architecture
Partial stipend support to supplement external fund

Grants

- 2016 Avalon and Graduate Student Council Travel Grants, MIT
For funding travels to present graduate research
- 2014 Harold Horowitz (1951) Student Research Fund, MIT
Fund to support publication of research results of exceptional merit
- 2012 Victor Horta Award of Excellence, ULB
Award for the best graduating student in Architecture
- 2012 Prix Alumni (A.Ir.Br), ULB
Best Master Thesis in Applied Engineering, 3rd place

COMMUNITY SERVICES

Committees

- 2013 – 2017 Harvard-MIT Belgian Student Club, Harvard and MIT
- Organized talks with renowned and innovative Belgian scientists, CEOs and politicians
 - Treasurer (2013-2014) & President (2014-2017)
- Fall 2013 Interdisciplinary committee, Dept. of Architecture, MIT
- Member of meetings for different programs within the architecture department
 - *Co-organiser*: Prof. Tarek Rahka
- 2011-2012 Board of European Students of Technology (BEST), VUB
- Successfully obtained sponsorships from industry, co-organized summer course
 - Vice President of Corporate Relations

Editorial activities

- 2016 – 2017 Embodied Carbon in Buildings: Measurement, Management, and Mitigation
Co-editor book (see publications), University of Cambridge, Springer
- 2016 – 2017 International Society for Industrial Ecology (ISIE)
Reviewer International Symposium on Sustainable Systems and Technology (ISSST)
- 2015 – 2017 Proceedings of ICE – Engineering Sustainability, Energy Efficiency
Referee journal papers
- 2010 Analysis of Global Risk in High Rise Buildings
Co-editor book (see publications), ULB

Services

- Summer 2017 Volunteering Fundación Trazando Espacios Públicos, Venezuela, with Ana Vargas
- 2008-2016 Tutoring Mathematics, Sciences, French, Piano
- 2014 – 2015 Structural Design Lab Mentor, MIT with Prof. John Ochsendorf and Prof. Caitlin Mueller
- 2014 Teacher for Women in Science and Engineering (WiSE), with Prof. Caitlin Mueller
- Summer 2012 Summer course on lightweight structures, BEST

SKILLS & ACTIVITIES

Languages

Native French & Dutch
Fluent English

IT

Software Revit, AutoCAD, Rhinoceros, Grasshopper, GSA, SAP, Photoshop, InDesign, Office
Programming MATLAB, C++, Python, HTML, SQL

Coursework

Engineering Structural Analysis, Structure Mechanics, Resistance of materials, Steel/Concrete, etc.
Sustainability Design for Sustainability, Sustainable Design Studio, Modelling Energy, Building Physics, etc.

Other activities and interests

- 1996 - 2017 Theatre (acting), Piano, Singing, Rock climbing
Interests Design, Arts, Literature, Cinema, Foreign cultures, History, Travelling