

## EDUCATION

- 2014 – 2017 **PhD in Architecture: Building Technology (BT) – Massachusetts Institute of Technology (MIT)**  
*Dept. of Architecture, US, Advisor: Prof. J. Ochsendorf, Defence: April 11, 2017*  
*Dissertation: Low-carbon pathways for structural design: embodied life cycle impacts of building structures*
- 2012 – 2014 **M.Sc. in BT – MIT**  
*Dept. of Architecture, US, GPA 5.0/5.0, Advisor: Prof. J. Ochsendorf*  
*Thesis: Material quantities in building structures and their environmental impact*
- 2007 – 2012 **M.Sc. & B.Sc in Civil Engineering & Architecture Double Degree – Vrije Universiteit Brussel (VUB) / Université Libre de Bruxelles (ULB)**  
*Faculty of Applied Sciences, BE, Highest Honours, Advisor: Prof. N. De Temmerman, with exchange at European Summer School on Construction History at University of Cambridge in 2011*  
*Thesis: Life Cycle Design – How can interactions between buildings, components and materials support design for re-use through sustainable material management?*

## RESEARCH &amp; PROFESSIONAL EXPERIENCE

- From 2021 **Assistant Professor of Circular Engineering for Architecture, Chair of Digital for Circular (D4C) Lab – Swiss Federal Institute of Technology Zurich (ETH Zürich), CH**  
*Institute of Construction & Infrastructure Management, Department of Civil, Environmental and Geomatic Engineering*
- 2020 – 2021 **Assistant Professor of Design & Construction Management – University of Technology Delft, NL**  
*Management of the Built Environment, Faculty of Architecture and the Built Environment, Mentor: Prof. P. Chan*
- 2019 – current **Scientific expert and founder – De Wolf Environmental Architecture Thinking (EARTH), CH**  
*Scientific expertise, consulting, public speaking, teaching, writing, e.g. with World Green Building Council*
- 2017 – 2020 **Postdoctoral Fellow – École Polytechnique Fédérale de Lausanne (EPFL), CH**  
*Structural Xploration Lab, Circular economy in structures, Advisor: Prof. C. Fivet*
- 2020 **Environmental construction engineer – Elioth, Egis Concept, FR**  
*Energy efficiency of construction, Advisor: G. Meunier*
- 2019 **Scientific Expert – Joint Research Centre (JRC) of the European Commission, ES**  
*Circular Economy and Industrial Leadership B5 Unit, Assessment of European LCA tools and databases, verification of Level(s) projects via interviews, and helpdesk, Advisors: Dr. N. Dodd & Dr. M. Cordella*
- 2016 **Research Assistant – University of Cambridge, UK**  
*Dept. of Engineering, Whole life cycle of buildings, Advisors: Prof. P. Guthrie & Dr. A. Moncaster*
- 2015 **Consultant Engineer – Helionix Designs, UK**  
*Low carbon pathways for architectural design, Advisor: M. Carey*
- 2013 & 2015 **Research Assistant – MIT, Kuwait Institute of Scientific Research (KISR) & Kuwait University, KU**  
*Energy simulation at urban scale, Advisor: Prof. O. Buyukozturk*
- 2015 **Researcher – MIT & Stellenbosch University, US & SA**  
*International Design Centre, Urban metabolism of African cities, Advisor: Prof. J. Fernandez*
- 2014 **Engineer – Ney & Partners, BE**  
*Environmental impact assessment of bridges, Advisor: K. Verbeeck*
- 2013 & 2014 **Visiting Researcher – Arup, UK & US**  
*Materials London, Advisors: A. Charlson & K. Steele + Structures San Francisco, Advisor: F. Yang*
- 2011 **Architectural Intern – Modulo Architects, BE**  
*Design competitions of schools, Advisors: O. Adam, O. Barré & P. Spruytte*
- 2009 & 2010 **CAD Designer – Royal Institute of Natural Sciences, BE**  
*Digitalisation of Natural Science Museum's architectural drawings, Advisor: G. Claes*

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## TEACHING ACTIVITIES

### Instructor

- 2021 “Re-design: complex redevelopment projects” – *Faculty of Architecture and the Built Environment*, TU Delft, with Prof. S. Zijlstra
- 2020 – 2021 “Academic Skills 3” – *Faculty of Architecture and the Built Environment*, TU Delft, with Prof. L. Lousberg
- 2019 “Constructive Second-Hand” – *School of Architecture, Civil and Environmental Engineering (ENAC)*, EPFL, with Prof. C. Fivet, C.-A. Jacot, and P. Mariotte
- 2018 – 2019 “Building Design in the Circular Economy” – *ENAC*, EPFL, with Prof. C. Fivet,
- 2018 “Interactive structural design” – *School of Architecture and Urban Planning*, Nanjing University,
- 2018 “Life Cycle Assessment” – *ENAC*, EPFL

### Invited Lecturer

- 2021 *Class*: Re-Re-/Source the Built Environment – *Instructor*: Prof. G. Habert, ETH Zürich
- 2021 *Class*: Automation for the Circular Economy – Northeastern University
- 2019 *Class*: Studio Notre Dame Reloaded – *Instructor*: Prof. D. Stockhammer, University of Liechtenstein
- 2019 *Class*: Youth for Reuse Deconstruction Tram Depot – *Instructor*: Prof. M. & A. Fröhlich, EPFL
- 2018 *Class*: Constructive Second-Hand ENAC week – *Instructor*: Prof. C. Fivet, EPFL
- 2017 *Seminars MSc/PhD*: Stanford with Prof. M. Lepech, ETH Zurich with Prof. P. Block, MIT with Prof. C. Mueller
- 2015 & 2017 *Class MSc*: Environmental Structures – California Polytechnic State University (CalPoly) with Prof. E. Saliklis
- 2017 *Class MSc*: Technologies for Sustainable Societies – University of California Berkeley with Prof. A. Horvath
- 2015 *Classes MSc/BSc*: Building Structural Systems II, Modeling and Analysis of Structures, and Civil and Environmental Engineering Design – MIT with Prof. C. Mueller

### Design studio jury member

- 2018 Constructive Second-Hand ENAC week (EPFL)
- 2015 Architecture Design Option Studio – *Instructor*: Prof. A. D’Hooghe, MIT
- 2014 Arch. Design Core 3 Studio – *Instructors*: Prof. S. Kennedy, Prof. C. Mueller, MIT
- 2013 Building Structural Systems II – *Instructor*: Prof. J. Ochsendorf, MIT

### Teaching Assistant, MIT

- 2016 Analysis of Historic Structures, with Prof. J. Ochsendorf
- 2013 Building Structures II (Structures & Envelope Design), with Prof. J. Ochsendorf and Andrea Love

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## SUPERVISION OF JUNIOR RESEARCHERS

### Supervisor at PhD and Postgraduate level

- 2018 – 2018 *Research Assistant*: T. Menny “Habitats in time: embodied carbon legacy of Geneva” – EPFL
- 2018 – 2018 *Research Assistant*: T. Hegarty “Build-Unbuild-Repeat: reuse of façade elements” – EPFL

### Supervisor at Master level (Thesis, Project, Design)

- 2020 – 2021 *Project*: NE. Gallagher “digital innovation towards a circular built environment” – Gordon Institute of Engineering Leadership Program, Northeastern University Thesis
- 2020 – 2021 *Master thesis*: N. Shivakumar “BIM-based circularity assessment” – TU Delft
- 2020 – 2021 *Master thesis*: R. Utmani “How can circularity be implemented within the Commercial Real Estate Valuation Realm?” – TU Delft
- 2020 – 2021 *Master thesis*: A. Namburu “Blockchain for circularity: enhanced material passports with blockchain technology” – TU Delft
- 2020 – 2021 *Master thesis*: Y. Jia “Digital Twin as enabler in circular lifecycle management” – TU Delft with T. Jylhä
- 2020 – 2021 *Master thesis*: A. Parmar “Becoming Entrepreneurial: A strategy for a Circular Built Environment” – TU Delft with H. Wamelink
- 2018 – 2018 *Research Assistant*: F. Broginni and L. Sironi “Habitat 4D-Time machine” – EPFL with C. Fivet
- 2017 – 2018 *Master Design Project*: E. Memillod, “Reuse of nuclear plants” – EPFL with V. Kaufmann, B. Cache
- 2017 – 2018 *Master Design Project*: F. Salmona, “Architecture for musical performance” – EPFL with C. Fivet, P. Tombesi
- 2014 – 2015 *Master of Engineering Thesis*: R. Bianquis, “Environmental Impact of Bridges” – MIT with J. Ochsendorf
- 2015 *Master Work*: V. Goswein “Material Flows African Cities”, MIT with J. Fernández

### Supervisor at Bachelor level

- 2018 – 2018 *Research Assistant*: B. Vallance “Defining circular economy in architecture” – EPFL
- 2015 – 2016 *Undergraduate Research Opportunities Program*: W. Lau, J. Hogroian, E. Pence, I. Tegene, C. Chern – MIT

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## SERVICES

### Scientific committee member

- 2021 *Belgian Building Awards – Architectura.be*: jury member
- 2021 – current *BuiltHub Stakeholder Community*: H2020 funded project on building stock data platform
- 2018 – 2019 *Sustainable Built Environment (SBE)* conference, supported by CIB and UNEP
- 2018 *Symposium on simulation for Architecture + Urban Design (SimAUD)* conference
- 2018 *International Association for Shell and Spatial Structures (IASS)*: “Environmentally compatible structures” session and plenary speaker Hangai Alumni Lightning talks
- 2016 – 2017 *International Symposium on Sustainable Systems and Technology (ISSST)* for International Society for Industrial Ecology (ISIE)
- 2016 – current *Innovators under 35 Belgium*, alumni panel member, reviewing new candidates for the awards
- 2014 – current *Other memberships*: Green MIND University, ISIE, IASS

### Organisation of conferences

- 2021 *International Federation for Structural Concrete (fib) Symposium Conceptual Design of Structures – ETH Zürich*: moderator “Behind the curtain: the role of structural engineers and architects in the 21st century,” E. Mosayebi, A. Bernabeu, L. Frank, B. Baker
- 2016 *Embodied Carbon & Energy Academia-Industry Symposium – University of Cambridge*: co-organiser with F. Pomponi & A. Moncaster
- 2014 – 2016 *President – Harvard & MIT Belgian Society*: co-organiser of talks of scientists, CEO’s & politicians
- 2014 *Edward and Mary Allen Lecture in Structural Design – MIT*: editor of booklet on S. Velez talk
- 2011 *Risk analysis in high-rise buildings conference – ULB*: co-organiser of conference & co-editor of proceedings

### Organisation of workshop & summer schools

- 2021 – 2022 *Global Giving Fundraising & Design School Building in Guaruchal, Venezuela – Trazando Espacios Publicos*: co-designer with A. Vargas
- 2021 *Workshop Digital Circular Built Environment – TU Delft*: co-host with S. Cetin-Ozturk & N. Bocken
- 2019 *Sustainable innovation in sport infrastructure think thank – International Olympic Committee (IOC)*: co-organiser
- 2019 *Workshop reuse in design – EPFL*: leader of brainstorming sessions with industry & academia
- 2015 *Workshop embodied carbon – Thornton Tomasetti and Weidinger*: organiser of industry workshop
- 2011 – 2012 *Vice president – Board of European Students of Technology*: co-organiser of summer school

### Leadership in research projects

- 2017 – 2020 *REthinking Sustainability Towards a Regenerative Economy (RESTORE)*: Working Group Subleader
- 2016 – 2019 *Carbon Leadership Forum*: Board member, co-founder Structural Engineers 2050 Commitment
- 2018 *Short Term Scientific Mission at TRANSFORM lab* on reuse in buildings: RESTORE Fund
- 2018 *4D-Time machine at EPFL* on mapping Geneva’s embodied carbon legacy: HABITAT Fund
- 2018 *Build Unbuild Repeat (BUR) phase 2: The Envelope*: Smart living lab Fund
- 2016 – current *Structural Engineers 2050 Commitment*: Structural Engineers Institute (SEI) Futures Fund

### Reviewing and editing activities

- 2018 – 2019 *Regenerative design in the digital practice. A Handbook for the Built Environment. RESTORE book*: co-editor & co-author.
- 2018 – 2019 *International Energy Agency (IEA) Clean Energy Pathways Report*: reviewer
- 2018 *Scientific Data Journal. Nature*: reviewer
- 2016 – 2017 *Energy Efficiency Journal. Proceedings of Institution of Civil Engineering (ICE)*: reviewer
- 2016 – 2018 *Embodied carbon in Buildings. Springer book*: co-editor and co-author
- 2015 – 2016 *Engineering Sustainability Journal. Proceedings of ICE*: reviewer
- 2010 *Risk Analysis in High-Rise Buildings. ULB book*: co-editor

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## PRIZES, AWARDS & FELLOWSHIPS

- 2020 Association of Collegiate Schools of Architecture (ACSA) Research Contribution Award (US)
- 2018 – 2023 Qualification maître de conference, aptitude certification to be civil engineering professor (FR)
- 2017 – 2019 Marie Skłodowska-Curie Fellowship European Commission (CH)
- 2017 – 2018 Swiss Government Excellence Scholarship (CH)
- 2015 – 2017 World Excellence Fellowship Wallonie-Bruxelles International (BE)
- 2014 – 2015 MIT Presidential Fellowship (US)
- 2015 Innovators under 35 Belgium Award, MIT Technology Review (US)
- 2016 Hangai Prize, IASS (JP)
- 2014 Harold Horowitz Award, MIT (US)
- 2012 – 2013 Belgian American Education Foundation (BE-US) - Gustave Boël – Sofina Fellowship (BE)
- 2014 Young Researcher Award at Sustainable Structures Symposium (US)
- 2012 Horta Award of excellence, ULB (BE)

## PUBLICATIONS

### Journal publications

- 2020 *Sustainable Cities and Society (SCS) Passive and Low Energy Architecture special issue*  
**De Wolf, C.**, Hoxha, E., Fivet, C. “Comparison of environmental assessment methods when reusing building components: A case study.” 2020. Vol. 61, p2210-6707, DOI: 10.1016/j.scs.2020.102322
- 2019 *Journal of Architectural Engineering*  
**De Wolf, C.**, Hoxha, E., Hollberg, A., Fivet, C., Ochsendorf, J. “Database of Embodied Quantity Outputs: lowering material impacts through engineering.” Vol. 26, Issue 3, DOI: 10.1061/(ASCE)AE.1943-5568.0000408
- 2019 *Smart and Sustainable Built Environment*  
Rodriguez, B.X., Simonen, K., Huang, M., **De Wolf, C.**, “A taxonomy for Whole Building Life Cycle Assessment (WBLCA).” 2019.
- 2018 *Special Issue of Energy and Buildings on Embodied Energy and Carbon Efficiency*  
Pomponi, F., Moncaster, A., **De Wolf, C.**, “Furthering embodied carbon assessment in practice: results of an industry-academia collaborative research project.” 2018.
- 2018 *Journal of Cleaner Production*  
Kupwade-Patil, K., **De Wolf, C.**, Chin, S., Ochsendorf, J., Büyüköztürk, O., “Impact of Embodied Energy on materials/buildings with partial replacement of ordinary Portland Cement by natural Pozzolanitic Volcanic Ash.” Vol. 177, 2018, 547-554, DOI: 10.1016/j.jclepro.2017.12.234.
- 2017 *Journal of Technology / Architecture + Design (TAD) – Research Contribution Award*  
Simonen, K., Rodriguez, B.X., **De Wolf, C.**, “Benchmarking the Embodied Carbon of Buildings.” 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.” Vol. 134, 2017, 336-348, DOI: 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.” Vol. 140, No. 1 April 2017, 68-80, DOI: 10.1016/j.enbuild.2017.01.075.
- 2016 *Journal of the International Association for Shell and Spatial Structures (LASS) – Hangai Prize*  
**De Wolf, C.**, Ramage, M., Ochsendorf, J., “Low Carbon Vaulted Masonry Structures.” Vol. 57, No. 4, December n. 190, 2016, 275-284.
- 2015 *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.” Vol. 169, Issue ES4, 2015, 150-161, DOI: 10.1680/ensu.15.00033.
- 2014 *Invited Paper – The Structural Engineer*  
**De Wolf, C.**, Ochsendorf, J., “Participating in an Embodied Carbon Database.” February, 2014, 30-31.

### Conference publications

- 2019 *Sustainable Built Environment (SBE) Buildings As Material Banks (BAMB) Brussels, BE*  
Brütting, J., **De Wolf, C.**, Fivet, C. (2019) “Design of Open-Ended Load-Bearing Systems for Effective Downstream Reuse.” A Pathway for a Circular Future, February 5-7, 2019.
- 2019 *International Conference on Structure and Architecture (ICSA) Lisbon, PT*  
**De Wolf, C.**, Fivet, C., “Tall Timber as Zero Carbon Structural Design.” July 24-26, 2019.
- 2018 *Passive and Low Energy Architecture (PLEA) Hong Kong, CN*  
**De Wolf, C.**, Brütting J., Fivet, C., “Embodied Carbon Benefits of Reusing Structural Components in the Built Environment: a Medium-rise Office Building Case Study.” December 10-12, 2018.
- 2018 *International Symposium on Life-Cycle Civil Engineering (LALCCE) Ghent, BE*  
**De Wolf, C.**, Davies, D., “Benchmarking embodied carbon in structural materials.” Oct. 28-31, 2018.
- 2018 *LASS Boston, US*
  - Stern, B., Mueller, C., **De Wolf, C.**, “Minimizing Embodied Carbon in Multi-Material Structural Optimization of Planar Trusses.” July 16-20, 2018.
  - **De Wolf, C.**, “Low Carbon Pathways for Structural Design.” July 16-20, 2018.
- 2016 *LASS Tokyo, JP – Hangai Prize*  
**De Wolf, C.**, Ramage, M., Ochsendorf, J., “Low Carbon Vaulted Masonry Structures.” September 26-30, 2016.
- 2016 *Sustainable Built Environment (SBE) Zurich, CH*  
**De Wolf, C.**, Bird, K., Ochsendorf, J., “Material quantities and embodied carbon in exemplary low-carbon case studies.” June 13-17, 2016.
- 2015 *LABSE Geneva, CH*  
**De Wolf, C.**, Verbeeck, K., Ochsendorf, J., “The environmental impact of bridges.” September 23-25, 2015.

- 2015 *LASS Amsterdam*  
Iuorio, O., **De Wolf, C.**, Ochsendorf, J., “Embodied carbon of long span roofs.” Amsterdam, NL, August 17-20, 2015.
- 2015 *Infrastructure Innovation in a Changing Environment Conference*, MIT, US, November 20, 2015
- Hogroian, J., **De Wolf, C.**, Ochsendorf, J., “Comparing material quantities and embodied carbon in stadia.”
  - 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.”
- 2014 *LASS Brasilia*  
**De Wolf, C.**, Hogroian, J., Ochsendorf, J., “Comparing material quantities and embodied carbon in stadia.” Brasilia, BR, September 17, 2014.
- 2014 *Sustainable Structures Symposium Portland – Young Researcher Award*  
**De Wolf, C.**, Iuorio, O., Ochsendorf, J., “Structural Material Quantities and Embodied Carbon Coefficients: Challenges and Opportunities.” Corey Griffin (ed.), Portland State University, Portland, US, April 18, 2014.
- Books**
- 2019 *Regenerative design in the digital practice*  
**De Wolf, C.**, “Integrating the reuse of structures in LCA tools” in: Havinga, L., **De Wolf, C.**, Marvuglia, A. (ed.), Design for environmental impact reduction and a circular economy chapter, Regenerative design in the digital practice - RESTORE Working Group 2 book, 2019.
- 2018 *Embodied Carbon in Buildings: Measurement, Management, and Mitigation*  
**De Wolf, C.**, Simonen, K., Ochsendorf, J., “Initiatives to Report and Reduce Embodied Carbon in Buildings in North America” in: Pomponi, F., **De Wolf, C.**, Moncaster, A. (ed.), Embodied Carbon in Buildings: Measurement, Management, and Mitigation, Springer, Berlin, Germany, 2018.
- 2017 *New Carbon Architecture*  
**De Wolf, C.**, Droguett, B.R., Simonen, K., “Counting Carbon – What We Know and How We Know It” in: King, B. (ed.), New Carbon Architecture, New Society Publishers, Canada, 2017.
- 2017 *Sustainability of Kuwait’s Built Environment*  
Reinhart, C., Ochsendorf, J., Cerezo, C., Jones, N., Soares, N., **De Wolf, C.**, “Enhanced Operational Energy Efficiency and Life Cycle Performance of Buildings and Neighborhoods in Kuwait” in: Büyükoztürk, O., Kamal, H., Toksöz, M.N. (ed.), Sustainability of Kuwait’s Built Environment, Kuwait-MIT Signature Project, Kuwait Foundation for the Advancement of Sciences (KFAS) through MIT - Center for Natural Resources and the Environment (CNRE), Cambridge, United States of America, 2017.
- 2011 *Analysis of Global Risk in High Rise Buildings*  
Rammer, Y., Dechamps, Y., **De Wolf, C.** (ed.), VUB, ULB, Association des Entrepreneur Belges, Brussels, Belgium, 2011, 302p.

### General press

- 2018 – 2019 Selected interviews on circular economy (Dutch and French) conducted for Architectura.be  
“Networking is key on circular construction sites” – “Public authorities and the circular economy in the building sector” – “Design from & for reuse” – etc.
- 2015 – 2017 Selected Bilingual columns (Dutch and French) written for Architectura.be  
“Life cycle assessment” – “Databases and methods for the environmental impact of buildings” – “Cradle to Grave” – etc.

### Other artefacts with documented use

- 2021 *CB23 Guidelines Circular Design*  
Guideline report from Platform CB’23 – Working group participant
- 2019 *World Green Building Council (WorldGBC)*  
Building embodied carbon upfront Report, consultant for Ramboll Engineering
- 2018 *European Climate Foundation (ECF) report*  
Favier, A., **De Wolf, C.**, Scrivener, K., Habert, G. “A sustainable future for the European cement and concrete industry. Technology assessment for full decarbonisation of the industry by 2050,” Report written for the ECF
- 2018 *Habitat 4D-maps of Geneva’s embodied carbon legacy*  
Produced maps on the construction, demolition, and material use history of Geneva
- 2018 *Joint Research Centre (JRC) at the European Commission*  
Contributed to Webinar “Level(S): a common EU-framework for whole life Global Warming Potential”
- 2017 *Database of embodied Quantity outputs (deQo)*  
Created and developed a database on material quantities and embodied carbon in building structures, collected over 500 projects, available at deqo.mit.edu

## PRESENTATIONS

### Oral contributions to conferences

- 2019 *Artificial Intelligence in the Architecture, Engineering and Construction Sector (ALAE) Virtual Conference*  
“Automating reuse of materials in architecture.” – Online, March 24-25, 2021
- 2019 *ICSA Lisbon*  
“Tall Timber as Zero Carbon Structural Design.” – Lisbon, PT, July 24-26, 2019
- 2018 *LALCCE Ghent*  
“Benchmarking embodied carbon in structural materials.” – Ghent, BE, October 29, 2018
- 2018 *LASS Boston*  
“Low Carbon Pathways for Structural Design.” – Plenary Session, MIT, Boston, US, July 18, 2018
- 2018 *Greenbuild Europe*  
“Life Cycle Assessment as a Tool for Design.” – Industry workshop at Greenbuild, with Havinga, L., Peretti, G., Naboni, E., Berlin, DE, April 18, 2018
- 2016 *LASS Tokyo – Hangei Prize*  
“Low Carbon Vaulted Masonry Structures.” – Plenary Talk, Tokyo University, Tokyo, JP, Sept. 30, 2016
- 2016 *Embodied Carbon Academia-Industry Symposium – University of Cambridge*  
“Implementing whole life embodied carbon in buildings.” Cambridge, UK, April 11, 2016.
- 2016 *International Society for Industrial Ecology (ISIE) Americas*  
“Implementing Whole Life Embodied Carbon in Buildings.” – Universidad de Los Andes, Bogota, CO, 24-27 May 2016
- 2016 *Sustainable Built Environment (SBE) Zurich*  
“Material quantities and embodied carbon in exemplary low-carbon case studies.” Zurich, CH, June 13-17, 2016
- 2015 *ISIE, Taking Stock of Industrial Ecology*  
“Retrofit Rethink: Material Flows for Housing in African Cities.” – University of Surrey, Guildford, UK, 7-10 July 2015, with C. Loggia
- 2015 *Contour: Agency/ Agents of Urbanity*  
“Material flows & embodied carbon in African Cities,” with Goswein, V., Lausanne, CH, June 1, 2015
- 2014 *LASS Brasilia*  
“Comparing material quantities and embodied carbon in stadia.” – Ulysses Guimarães Convention Center, Brasilia, BR, 15-19 Sept. 2014
- 2014 *Sustainable Structures Symposium – Young Researcher Award*  
“Material Quantities and Embodied Carbon Coefficients: Challenges and Opportunities.” – Portland State University, Portland, US, April 18, 2014
- 2014 *Structures Congress*  
“Survey of Material Quantities and Embodied Carbon.” with Yang, F., Boston, US, April 4, 2014

### Industry workshops and professional presentations

- 2020 *Engineering Club London*  
“Circular economy in structural design” – Talk at the Engineering Club, London, UK, Jan. 20, 2020
- 2019 *Workshop Reuse in Design*  
“Brainstorming sessions on reuse in design” – Workshop with industry leaders in circular construction at smart living lab, Fribourg, CH, July 3, 2019
- 2019 *Swiss Cement Industry*  
“Environmental challenges and the global construction sector: the role of the cement industry” – Presentation on the actions listed in the ECF report to the annual convention of the Swiss Cement Industry (cemsuisse), Bern, CH, June 3, 2019
- 2019 *Madaster*  
“Circular Construction” – Launch of Madaster Switzerland, Lausanne, CH, May 8, 2019
- 2019 *Losinger Marazzi*  
“Industry – Academia collaboration towards a circular economy” – Presentation at annual convention E-Motion of Losinger Marazzi, Lausanne, CH, March 28, 2019
- 2019 *Debate at Construction Fair Batibouw*  
“The environmental impact of the construction sector” – Debate with other stakeholders, Batibouw, Brussels, Feb. 27, 2019
- 2018 *Planet Week – MVRDV*  
“Circular Low-carbon Design” – Workshop at architecture office MVRDV, Rotterdam, NL, Oct. 2, 2018
- 2016 *Embodied Carbon and Energy Symposium, University of Cambridge*  
“Whole Life Embodied Carbon” – Cambridge, UK, 11 April, 2016, presenting & co-organizing the symposium
- 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
- 2014 *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
- 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

#### **Governmental presentations**

- 2019 *Groupe Déchets (Waste Group)*  
 “Load-bearing systems for circular economy” – Presentation to industry leaders and city governments in Switzerland about reuse of waste in construction, Fribourg, CH, March 21, 2019.
- 2018 *Swiss Resources Forum*  
 “Future cities in a circular economy” – World Resources Forum, Swiss Federal Laboratories for Materials Science and Technology (EMPA), Dübendorf, CH, Oct. 25, 2018
- 2018 *Europe Climate Foundation*  
 “Optimization in Structures Scenario” – Europe Climate Foundation, Brussels, BE, May 23, 2018
- 2018 *International Energy Agency (IEA)*  
 “Efficient use of materials in building design” – IEA Experts’ Dialogue on Materials trends in Buildings Construction, Paris, FR, March 9, 2018
- 2017 *Joint Research Centre (JRC) of the European Commission*  
 “Benchmarking embodied carbon in buildings” – JRC European Commission, Ispra, IT, Dec. 18, 2017
- 2016 *Emerging Leaders Conference at European Parliament*  
 “Environmental buildings” – European Parliament, Brussels, BE, Nov. 28, 2016

#### **Academic presentations**

- 2017 *Carbon Footprint and LCA Seminar at EURAC Research*  
 “Whole life cycle embodied carbon in building structures” – RESTORE, Bolzano, IT, July 25, 2017
- 2017 *Politecnico di Milano*  
 “Carbon footprint of the built environment” – OPENTalks, PoliMi, Milan, IT, July 24, 2017
- 2017 *Imperial College London*  
 “The impact of buildings” – Structures Seminar, Imperial College London, London, UK, Feb. 1, 2017
- 2015 *Integrated Design Architecture and Sustainability (IDEAS) talk, EPFL*  
 “Low carbon pathways for structural design” – EPFL, Lausanne, CH, June 1, 2015

#### **General audience presentations**

- 2020 *Maddy Keynote, FR*  
 “Environmental products for a circular economy” – entrepreneurs & decision-makers event, Jan. 31, 2020
- 2019 *IE-net Circular Concrete, BE*  
 “Decarbonisation of the European Concrete and cement sector” – IE-net day, Mar. 12, 2019
- 2018 *Smart living lunch, CH*  
 “Low carbon structural design” – smart living lunch, smart living lab, Feb. 6, 2018
- 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 *Technology-Entertainment-Design (TEDx) talk at Panthéon-Sorbonne, FR*  
 “Les nouveaux matériaux (new materials)” – TEDx talk, May 16, 2015

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#### **VOLUNTEERING, ACTIVITIES & SKILLS**

- Volunteering *Fundación Trazando Espacios Públicos*, Construction, Venezuela (07.2017)  
*Women in Science and Engineering (WiSE)*, Teaching, MIT (10.2013)  
*Local Economic Development*, Centre for Real Estate & University of KwaZulu Natal, SA (05–06.2013)
- Arts *Theatre* (Cours Florent) & *Piano* (École de Jazz et Musique Actuelle Lausanne, Conservatoire de Fribourg)  
*(Documentary) film making* (Conservatoire Libre du Cinéma Français, Cours Florent, Pôle Sud, Film & Architecture Studio, Independent School of the City Rotterdam)
- Sports *Rock climbing, sailing, yoga*
- Languages French, Dutch (Native), English (Fluent)
- IT Autodesk, Rhinoceros, Adobe, Office, MATLAB, website coding