

Faculty of Architecture, Building and Planning
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Employment history

Jan 2015 - Present **Postdoctoral Research Fellow**
The University of Melbourne, Australia

I am currently a Postdoctoral Research Fellow at the University of Melbourne. In this role, I am collaborating on a Discovery Research Grant to develop the most comprehensive database of environmental impacts of building materials. I am also actively involved in the organisation and scientific committee of the Architectural Science Association 2015 conference, hosted at the University of Melbourne. I also give a number of guest lectures in the field of construction and sustainable buildings.

Related awards: 1

Jun 2013 – Sep 2014 **Postdoctoral Researcher**
Université Libre de Bruxelles, Belgium

As a postdoctoral researcher at the Université Libre de Bruxelles, I was involved in a range of research projects, including the \$ 6.3M *Brussels Retrofit XL* project and a spin-off project on the development of a software tool for the early stage design of buildings, including structural, financial and environmental parameters. I also delivered guest lectures in various subjects such as *Bioclimatic Design* and I supervise master theses in civil engineering.

Jan 2012 – Nov 2014 **Marker**
The University of Melbourne, Australia

I have marked master students reports for three different subjects related to the construction industry, including the subject *Construction Industry and Environment*. Throughout this three-years period, I have provided pedagogical feedback to the students that significantly improved the quality of their reports and their learning experience. I have also performed all marking online on the Learning Management System, hence contributing to the implementation of a faster and more interactive assessment for the subjects.

Jun 2008 - present **Partner and consultant in energy efficiency**
Technical Enterprises Co., Lebanon

As a partner and consultant, I have been involved in improving the energy efficiency of six residential building projects (~10,000 m²). I have implemented passive design methods in new buildings that use less energy for heating, cooling and lighting while improving the overall comfort of the inhabitants. In parallel, I have introduced a research culture to the firm testified by a recent publication in the journal of *Energy* and an associated newspaper coverage.

Oct 2010 – Sep 2014 **Research Fellow**

Belgian Fund for Scientific Research (F.R.S.-FNRS), Belgium

I received a competitive Research Fellowship (39% success rate) to conduct research in life cycle energy analysis of buildings and undertake my joint-PhD in Belgium and Australia. As a Research Fellow, I was able to complete a joint-PhD in 2 years and 8 months instead of 4 years, develop a significant track record relative to opportunity and further pursue a post-doctoral research including a *Visiting Scholar* position in Australia and a research stay in Lebanon. The international nature of my fellowship has supplied me with a range of skills in the built environment and a global network of research and industrial partners.

Oct 2013 – Dec 2013 **Visiting Scholar**

The University of Melbourne, Australia

During my two months research stay, I have conducted research about the total water demand of buildings and of transport modes. Research outcomes have been published in highly ranked journals such as *Building Research and Information*. The significant outcome of this short stay testifies for my high productivity.

Oct 2010 - Dec 2011 **Subject Assistant and Lecturer**

Université Libre de Bruxelles, Belgium

As an assistant for the subject *Bioclimatic Design*, I have developed 12 new tutorials and lectured ~80 Bachelor of Engineering students about energy use in buildings, energy systems, passive energy design and energy simulation software.

Publications

My contributions have received 141 citations and have led to my h-index of 7 (Google Scholar, Nov 2015). These include:

- 7 journal papers** in top ranked international journals;
- 1 book section**;
- 5 conference papers**; and
- 12 other contributions**.

Education

Oct 2010- Jun 2013 **Doctor of Philosophy in Engineering Sciences and Architecture (joint-PhD)**

Université Libre de Bruxelles, Belgium & The University of Melbourne, Australia

Thesis: *Towards a comprehensive energy assessment of residential buildings. A multi-scale life cycle energy analysis framework*

Related awards: 2, 3, 4, 5,6

Sep 2008 - Jun 2010 **Master of Science in Architectural Engineering** — The highest distinction

Université Libre de Bruxelles, Belgium

Ranked 1st/172 graduates across the faculty of engineering.

Related awards: 8,9

- Aug 2009 - Jun 2010 **Erasmus Master Exchange Program**
Lund University LTH, Sweden
Thesis: Implementing passive house standards in public buildings: retrofitting of a university building in Brussels, Belgium
Related award: 7
- Sep 2005 - Jun 2008 **Bachelor in Engineering Sciences** — High distinction
Université Libre de Bruxelles, Belgium
- Jun 2005 **General Scientific French Bacallaureate** — Distinction
Lebanon

Awards

- May 2015 1 **Graham Treloar Fellowship 2014**
Melbourne School of Design, The University of Melbourne, Australia
- May 2014 2 **John Grice prize for best research thesis in Architecture 2013**
Melbourne School of Design, The University of Melbourne, Australia
- May 2014 3 **Chartered Institute Of Building Research Award**
Chartered Institute Of Building, Australia
- May 2013 4 **Deans prize for published postgraduate research for 2012** — 2nd prize
Melbourne School of Design, The University of Melbourne, Australia
- Nov 2012 5 **National postgraduate student energy award** — 1st prize
Australian Institute of Energy, Australia
'Achieving more with less'
- Oct 2012 6 **Victorian postgraduate student energy award** — 2nd prize
Australian Institute of Energy, Australia
'Renewable energy and energy systems'
- Oct 2011 7 **Solvay master thesis award 2010**
Solvay group, Belgium
- Jun 2010 8 **Victor Horta excellence prize**
Université Libre de Bruxelles, Belgium
- Nov 2008 9 **Challenge *construction durable* (sustainable building)** — 1st prize
Bouygues Construction, France

Competitive Research funding

- Nov 2014 1 **Discovery research grant (~\$276k)**
Australian Research Council, Australia
- Apr 2015 2 **Early Career Researcher Award (\$5k)**
Melbourne School of Design, The University of Melbourne, Australia
- Apr 2012 3 **BRIC scholarship (~\$6k)**
Université Libre de Bruxelles, Belgium
- Jun 2011 4 **Excellency scholarship (~\$26k)**
Wallonia-Brussels International, Belgium
- Jun 2010 5 **Research fellowship (~\$178k)**
Belgian Fund for Scientific Research, F.R.S.-FNRS, Belgium

Community Service

- Mar 2012 - Feb 2013 **Secretary of postgraduate students association *Space Cadets***
Faculty of Architecture, Building and Planning
The University of Melbourne, Australia
- Oct 2010 – Oct 2014 **Website development, poster design and graphic layouts**
Department of Building, Architecture and Town planning – BATir
Université Libre de Bruxelles, Belgium

Languages

| | |
|---------|---------------------------|
| English | Native proficiency |
| French | Mother tongue |
| Arabic | Mother tongue |
| Persian | Basic |
| Swedish | Basic |

Computer skills

| | | |
|--------|-------------------------------------|------------------|
| Python | Building Energy simulation software | Adobe Photoshop |
| Matlab | Autocad | Adobe Flash |
| C++ | Sketchup | Microsoft Office |

Professional affiliations

- 2010 - present **Royal Federation of Associations of Belgian Engineers**
Belgium
- 2011 - present **Lebanese Order of Engineers and Architects**
Lebanon
- 2012 - 2013 **Australian Institute of Energy**
Australia