

# Dr Danielle Densley Tingley

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## 1. Education:

2009 – March 2013: The University of Sheffield, PhD in low carbon Structural Engineering  
Design for Deconstruction: an appraisal

2005-2009: The University of Sheffield, MEng, Structural Engineering and Architecture, 2:1

## 2. Professional History

May 2016 – Current: The University of Sheffield, Lecturer in Architectural Engineering

Sept 2015 – May 2016: The University of Sheffield (UoS), Cities and Infrastructure Senior Research Associate

Jan 2014 – Sept 2015: The University of Cambridge, Research Associate

2012 – Dec 2013: The University of Sheffield, BIG Energy Upgrade Project, Research Associate

2010– Dec 2013: The University of Sheffield, Teaching Assistant

## 3. List of up to 10 of the most relevant scientific and technological results - Articles

Cooper, S., Skelton, A., Owen, A., **Densley Tingley, D.**, Allwood, J. 2016. A multi-method approach for analysing the potential employment impacts of material efficiency. *Resources, Conservation and Recycling*, 109, pp:54-66. Number of citations (Google Scholar): 2

**Densley Tingley, D.**, Hathway, A., & Davison, B. 2015. An environmental impact comparison of external wall insulation types. *Building and Environment*, vol 85, pp: 182-189. DOI: 10.1016/j.buildenv.2014.11.021 Number of citations (Google Scholar): 9

**Densley Tingley, D.**, Hathway, A., Davison B., Allwood, D. *In press*. The Environmental Impact of Phenolic Foam Insulation Boards. *Proceedings of the ICE, Construction Materials*.  
Number of citations (Google Scholar): 1

**Densley Tingley, D.** & Davison, B. 2012. Developing an LCA Methodology to account for the environmental benefits of Design for Deconstruction, *Building and Environment*, vol. 57, pp: 387-395 Number of citations (Google Scholar): 35

**Densley Tingley, D.** & Davison, B. 2011. Design for Deconstruction and Material Reuse, *Proceedings of the ICE, Energy (November 2011)* Number of citations (Google Scholar): 17

Giesekam J, **Densley-Tingley D**, Barrett J (2016) *Building on the Paris Agreement: making the case for embodied carbon intensity targets in construction*, In: *Zero Carbon Buildings Today and in the Future 2016*, Birmingham City University, 8-9th September, 2016, Birmingham, UK.

**Densley Tingley, D.** 2015. The role of natural materials in low carbon architecture. International sustainable development research society conference: The Tipping Point: Vulnerability and Adaptive Capacity. Geelong, Australia, 10-12 July 2015

**Densley Tingley, D.** & Allwood, J. 2014. Reuse of structural steel: the opportunities and challenges. *European Steel Environment & Energy Congress*, Teesside University, UK, 15-17 September 2014

Okutu, K. A., **Densley Tingley, D.**, Davison J. B., & Carr, J. F. 2014. Steel-Timber Hybrid Floors - Lowering the Embodied Impacts of Steel Frame Multi-Storey Construction, 7th European Conference on Steel and Composite Structures (EUROSTEEL), Naples, Italy, 10-12 September 2014

**Densley Tingley, D.** & Davison, B. 2010. Changing Environmental Assessment Methods to Encourage Material Reuse, in 9<sup>th</sup> International Detail Design in Architecture Conference, Preston, UK (November 2010), pp: 55-66

## 4. Current research grants awarded by any agency or company to the researcher

**UoS/EPSCRC Global Challenges Fund, £20,000; Co-Investigator. 2016.** Resource Futures for Sustainable Urbanisation. PI's: S. Marvin & S. A. Bernal. Idea development and assisted in grant writing.

**White Rose Collaboration Fund, £10,826; The University of Sheffield Principal Investigator, 2015.**

Understanding public perceptions and experiences of low carbon building materials. Idea development and assisted in grant writing. Project PI: K. Roelich, The University of Leeds.

**Innovate UK, £ 406,952; Researcher Co-Investigator, 2015**

Innovative engineering approach for material and cost efficiency in design, fabrication and construction of steel buildings. University of Cambridge PI: J. Allwood, Industrial collaboration with: Price & Myers, Steel Construction Institute, William Hare. Crucial role in grant writing & developing team cohesion.

**Innovate UK, £130,834; Researcher Co-Investigator, 2015**

Supply chain integration for structural steel reuse. University of Cambridge PI: J. Cullen, Industrial collaboration with: Steel Construction Institute, Alliance for Sustainable Building Products & National Federation of Demolition Contractors. Matched idea to call, pivotal involvement in development and writing.

## 5. List of ongoing supervisions, with students holding fellowships

Type: Doctoral. Funding agency: Newton Fund PhD Placement. Project title: Sustainability Assessment of Concrete Structures

Type: Undergraduate. Funding agency: UoS. Project title: Does designing with deconstructed and recycled structural elements limit architectural designs?

Type: Undergraduate. Funding agency: UoS. Project title: Minimising the whole life carbon of UK housing

Type: Undergraduate. Funding agency: UoS. Project title: How Can Temporary Relief Structures Be Improved For World Crises?

Type: Undergraduate. Funding agency: UoS. Project title: Building Adaptability vs Efficient Utilisation of Materials – Which is the more sustainable solution to long term building design?

Type: Undergraduate. Funding agency: UoS. Project title: Design For Deconstruction, Reuse And Adaptation - Global Sports Venues

Type: Undergraduate. Funding agency: UoS. Project title: The Role Of The Circular Economy In The Built Environment

## 6. Academic quantitative indicators

Journal Papers: 8

Conference Papers: 14

Trade Articles: 2

Number of citations received in the international scientific literature according to google scholar: 74

## 7. Links to the web pages

MyCitations (Google Scholar): <https://scholar.google.co.uk/citations?user=5FTW5ocAAAAJ&hl=en>