

CURRICULUM VITAE | WIBKE DE VILLIERS

PERSONAL INFORMATION

NAME	Wibke Irmtraut de Villiers (née Dunaiski)
DATE OF BIRTH	31 August 1984
GENDER	Female
NATIONALITY	South African
IDENTITY NUMBER	840 831 0104 085
LANGUAGES	English, Afrikaans & German fluent

QUALIFICATIONS

2003 - 2006	Bachelors Degree in Civil Engineering, University of Stellenbosch 2006.12 degree obtained Cum Laude
2007 - 2008	Masters Degree in Structural Engineering, University of Stellenbosch 2008.12 degree obtained Cum Laude

RESEARCH INTERESTS

Regulation and certification of alternative building materials – performance-based regulations
Life cycle analysis of building materials
Development of alternative sustainable building materials – geo-polymers, natural fibre reinforced cement composites, recycled concrete aggregate, plastics.

WORK EXPERIENCE

2005.01	University of Stellenbosch – Loading Code Committee
2005.12 – 2006.01	Calculations and comparisons of loads due to wind actions, crane and machinery actions, subsequent reports on results obtained.
2006.11	
2009.02 – 2010.12	Aurecon – (multidisciplinary engineering consulting firm) In full-time employ as structural design engineer.
2011.01 - present	University of Stellenbosch In full-time employ as Lecturer Participant of research group – Sustainability of the Built Environment

TEACHING EXPERIENCE

2011	Theory of Structures 324 (teaching assistant) Strength of Materials 143
2012	Theory of Structures 324 (teaching assistant) Strength of Materials 143

PUBLICATIONS

THESIS	Investigation into the effective lengths of web compression elements in parallel chord trusses. (unpublished)
CONFERENCE ARTICLES	<p>The Development of a Decision-Making Model to Determine the Appropriateness of Alternative Building Technologies for Application in the Social Housing Industry. Presented at the Southern African Housing Foundation International Conference, September 2011, Cape Town, South Africa.</p> <p>Regulation of Alternative Building Materials and Systems in South Africa. Presented at the Southern African Housing Foundation International Conference, September 2012, Cape Town, South Africa.</p>
MASTER'S SUPERVISION	<p>Quantifying the Sustainability of the Built Environment: Model for the Determination of the Environmental Impact of the End-of-Life Phase. J Brits, 2012.</p> <p>The Influence of Percentage Replacement on Aggregate and Concrete Properties from Commercially Produced Coarse Recycled Concrete Aggregate. DW Immelman, 2013.</p>

BURSARIES

2003 - 2005	South African Institute of Steel Construction Bursary
2006 - 2008	Wilhelm Frank Scholarship
2003 - 2008	University of Stellenbosch Merit Bursary
2004 - 2006	University of Stellenbosch Sports Bursary

AWARDS & ACHIEVEMENTS

2003	Liebenberg & Stander Prize for Best First Year in Civil Engineering
2005	Best Student in Communication in Civil Engineering
2006	Best Student in Structural Steel Design

CONTACT DETAILS

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