

Dr. Ali Hamood Altheeb

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Qualifications:

- Ph.D. in Civil Engineering (Structures), The University of Melbourne, Melbourne, Australia (August 2011 – May 2016).
Thesis title: **“Seismic Drift Capacity of Lightly Reinforced Concrete Shear Walls”**, *nominated for the University of Melbourne Chancellor’s Prize for Excellence in the PhD Thesis.*
- Master of Engineering Science (Structures), The University of Melbourne, Melbourne, Australia (July 2009 – June 2011).
Thesis title: **“Overview of the Component Attenuation Modelling (CAM): Saudi Arabia Case Study”**
Graduated with First Class Honours degree
- Bachelor of Engineering Science (Civil), King Saud University, Riyadh, Saudi Arabia (September 2002 – July 2007).
GPA: 4.68 out of 5.0

Work Experience:

- Assistant Professor, Civil Engineering Department, King Saud University, Riyadh, Saudi Arabia (May 2016 – present)
Taught the following subjects:
 - Engineering Economy
 - Statics
 - In addition, supervising several senior undergraduate students of their Capstone Design Projects (CSD).
- Lecturer, Civil Engineering Department, King Saud University, Riyadh, Saudi Arabia (July 2014 – May 2016)
- Casual teaching staff member, Infrastructure Engineering Department, The University of Melbourne, Australia (August 2011 – December 2015).
Participated in several activities including tutoring, lab demonstrations and marking exams
- Teaching assistant, Civil Engineering Department, King Saud University, Riyadh, Saudi Arabia (September 2007 – July 2014).
Taught the following subjects:

- Structural Analysis I
 - Reinforced Concrete I
 - Soil Mechanics II
 - Hydrology
- Structural engineer in Alrashid and Almangour Trading and Contracting Company (now the Mohammed Alrashid Company – MARCO), Riyadh, Saudi Arabia (July 2007 – October 2008).
Duties included acting as site engineer and taking part in preparing/reviewing the structural design for three large-scale projects:
 - Faculty of Computer Science and Information Systems, Al-Imam Muhammad Ibn Saud Islamic University, Riyadh, Saudi Arabia
 - Faculty of Languages and Translation, Al-Imam Muhammad Ibn Saud Islamic University, Riyadh, Saudi Arabia
 - Supporting Deaneries, Al-Imam Muhammad Ibn Saud Islamic University, Riyadh, Saudi Arabia

Academic Activities:

Councils:

- 10/2017 – Present
Member, College of Engineering Council, College of Engineering King Saud University, Riyadh, Saudi Arabia.
- 06/2017 – Present
Member, Research Chair for Safety and Preservation of Structures (*SU-SPS*), College of Engineering, King Saud University, Riyadh, Saudi Arabia.
- 05/2016 – Present
Member, Civil Engineering Department Council, King Saud University, Riyadh, Saudi Arabia.
- 05/2016 – Present
Member, Structural Engineering Group Council, Civil Engineering, Department, King Saud University, Riyadh, Saudi Arabia.

Committees:

- 11/2017 – Present
Convener, Teaching Assistants Committee, College of Engineering, King Saud University, Riyadh, Saudi Arabia.
- 11/2017 – Present
Member, Department Website Development Committee, College of Engineering, King Saud University, Riyadh, Saudi Arabia.
- 10/2017 – Present
Member, BAE systems Awards committee, College of Engineering, King Saud University, Riyadh, Saudi Arabia.

- 05/2017 – Present
Member, Multidisciplinary Senior Design Project committee (*MSDP*), College of Engineering, King Saud University, Riyadh, Saudi Arabia.

Funded Research Projects

- 12/2017 – 12/2019 A research project entitled "*Impact damage mitigation of large diameter pipes against projectile*", funded by King Abdulaziz City for Science and Technology (KACST). (*submitted*)
- 12/2017 – 12/2019 A research project entitled "*Optimal Metakaolin-based Geopolymer Concrete for Saudi Arabia*", funded by King Abdulaziz City for Science and Technology (KACST). (*submitted*)

Publications:

- Albidah, A, **Altheeb, A**, Lam, NTK & Wilson, J 2015, 'Modelling non-linear behaviour of lightly reinforced concrete walls', paper presented to the Tenth Pacific Conference on Earthquake Engineering (Building an Earthquake-Resilient Pacific), Sydney, Australia, 6-8 November 2015.
- **Altheeb, A**, Albidah, A, Lam, NTK & Wilson, J 2015, 'Analytical modelling of strain penetration deformation in reinforced concrete members', paper presented to the Tenth Pacific Conference on Earthquake Engineering (Building an Earthquake-Resilient Pacific), Sydney, Australia, 6-8 November 2015.
- Albidah, A, **Altheeb, A**, Lam, N & Wilson, J 2013, 'A reconnaissance survey on shear wall characteristics in regions of low to moderate seismicity', paper presented to Australian Earthquake Engineering Society 2013 Conference, Hobart, Tasmania, 15-17 November 2013.
- **Altheeb, A**, Albidah, A, Lam, N & Wilson, J 2013, 'The development of strain penetration in lightly reinforced concrete shear walls', paper presented to The Australian Earthquake Engineering Society 2013 Conference, Hobart, Tasmania, 15-17 November 2013.
- Albidah, A, **Altheeb, A** & Lam, N 2011, 'Stochastic attenuation modelling: Saudi Arabia case study', paper presented to The Australian Earthquake Engineering Society 2011 Conference, Novotel Barossa Valley, South Australia, 18-20 November 2011.

Conferences and Seminars Participation:

Attended and presented at:

- The Infrastructure Engineering Postgraduate Conference 2015, The University of Melbourne, November 2015
- The Tenth Pacific Conference on Earthquake Engineering (Building an Earthquake-Resilient Pacific), Sydney, Australia, 6-8 November 2015
- The Infrastructure Engineering Postgraduate Conference 2013, The University of Melbourne, December 2013
- The Australian Earthquake Engineering Society 2013 Conference, Hobart, Tasmania, 15-17 November 2013
- The Infrastructure Engineering Postgraduate Conference 2012, The University of Melbourne, December 2012
- The Australian Earthquake Engineering Society 2011 Conference, Novotel Barossa Valley, South Australia, 18-20 November 2011

Attended at:

- Kick off Workshop on Special Project Aiming at the Development of Wind Maps and Climate Zone Maps for Saudi Arabia and Gulf States, Saudi Standards, Quality and Metrology Organization (SASO), Riyadh, Saudi Arabia, 16 May 2017
- Seminar: 'Designing with Computers', The Institution of Structural Engineers (ISTRUCTE) Victoria, The University of Melbourne, 27 July 2015
- Concrete 2013 Keynote Speakers Post-Conference Tour, Concrete Institute of Australia, Swinburne University, Victoria, Australia, 22 October 2013
- Bridges and Tunnels Conference 2011, Sydney, Australia, 28 June 2011

Research Interests:

- Structural dynamics.
- Buildings sustainability.
- Cementitious composites and geopolymer concrete.
- Seismic performance of lightly reinforced concrete structures.

- Earthquake hazard and risk assessment of structures in regions of low- to moderate-seismicity.
- Experimental mechanics.

Scholarships, Honours and Awards:

- Scholarship for postgraduate studies (M.Sc. and Ph.D.) in Australia, King Saud University (October 2008 – May 2016)
- Outstanding Academic Achievement Award for five consecutive years (2009-2013), Cultural Mission of Royal Embassy of Saudi Arabia, Canberra, Australia
- Melbourne International Fee Remission Scholarship (MIFRS), The University of Melbourne, Melbourne, Australia, 2011
- Melbourne International Research Scholarship (MIRS), The University of Melbourne, Melbourne, Australia, 2011

Training and Short Courses:

- Project Management Professional (PMP), Deanship of Skills Development, King Saud University, Riyadh, Saudi Arabia, 19-23 November 2017
- Designing for Soil Structure Interaction course, The Institution of Structural Engineers, The University of Melbourne, Melbourne, Australia, 7 November 2011
- English language programs - English for Academic Purposes, Hawthorn-Melbourne English Language Centre, Hawthorn, Victoria, Australia (October 2008 – July 2009)
- Planning and Scheduling of Projects, Training Centre, King Saud University, Riyadh, Saudi Arabia (7-18 April 2007)
- Undergraduate summer training, Alrashid and Almangour Trading and Contracting Company, Riyadh, Saudi Arabia (June – August 2006)
- English language courses, EF International School of English, Hastings, Britain (July – September 2005)
- Certificate in Microsoft Office – Intermediate Level, Almajrid Training Centre, Riyadh, Saudi Arabia (July – September 2003)

Computer Experience:

- Microsoft Office: Word, Excel, PowerPoint and others
- Structural software: SPACE GASS, STRAND 7, SAP2000, STAAD, SHAKE 91, GENQKE, RUAUMOKO, OpenSees
- Programming software: Fortran, MATLAB
- Other software: AutoCAD, Endnote