

## **Dr Husam Rabah Alsanat | AFHEA, PhD, MEng, BEng**

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### **PROFESSIONAL EXPERIENCE**

- March 2020 - present**                      Assistant Professor, AHU University, teaching Structural Analysis, Steel Design, Reinforced Concrete Design.
- May 2016 - March 2020**                      Assistant Lecturer, Griffith University, teaching Engineering Mechanics and Structural design courses (Outstanding Contribution to Teaching Award (2019) was gained).
- June 2018 - present**                      Tutor, GUMURRII Student Support Unit at Griffith University, Teaching Construction Engineering, Creative Engineering, Engineering Science, Engineering Maths and Engineering Materials.
- May 2013 - May 2014**                      Structural Engineer (Full-time).  
Consolidated Consultant Group, Jordan.
- Worked with the technical/engineering staff on reviewing plans, specifications and schedules, under the supervision of a Licensed Professional Engineer
  - Prepared technical writing reports, assisted with reviewing submittals, shop drawings and technical reports received from various projects, under the supervision of a Licensed Professional Engineer
  - Assisted with reviewing various engineering concepts/ safety regulations pertaining to specific projects and construction activities, under the supervision of a Licensed Professional Engineer
  - Participated in actual field progress and coordination; as well as in coordination meetings with various utility companies, railroad companies, City representatives and services on various projects

### **EDUCATION**

**Sep 2016 – Sep 2019**                      **Doctoral of Philosophy in Structural Engineering**  
Griffith University, Gold Coast, Australia.

Thesis Title

### **Web Crippling Behaviour and Design of Roll-Formed Aluminium Lipped Channel Sections**

This project is supported by Permalite Building Components Pty Ltd.

**June 2014 - August 2016**

### **Master of Engineering with Advanced Studies (Structural & Geotechnical Engineering)**

Griffith University, Australia

GPA: 6.1 (scale of 1-7, 7 highest) Griffith Award for Academic Excellence in 2015/16

#### Key Projects

- **Punching Shear Study on Reinforced Concrete Slab with Opening** – Final thesis (25% credit points of the degree and a high distinction grade (7/7) was received)
- **Steel Structure Design Project** – Worked effectively with other students to design a steel structure according to the Australian Standards, receiving the distinction grade.
- **Concrete Structure Design Project** – Designed a concrete structure with prestressed concrete slabs according to the Australian Standards, receiving a high distinction grade.

**March 2008 - Feb 2012**

### **Bachelor of Civil Engineering**

Al-hussein Bin Talal University, Jordan

GPA: 84.7% (scale of 1-100, 100 highest) Distinction grade

#### Key Project

- **Joint Design Project** – Worked effectively within an interdisciplinary team, architecture and civil engineering students, presenting a design that was shortlisted to win the course prize

## **PUBLICATIONS**

- **Alsanat, H.** Gunalan, S. Guan, H. Keerthan, P. and Bull J. (2019), Experimental study of aluminium lipped channel sections subjected to web crippling under two flange load cases, *Thin-Walled Structures*, Vol. 141, pp. 460-476.
- **Alsanat, H.** Gunalan, S. Keerthan, P. Guan, H. and Tsavdaridis, KD. (2019), Web crippling behaviour and design of aluminium lipped channel sections under two flange loading conditions, *Thin-Walled Structures*, Vol. 144, pp.106265.
- **Alsanat, H.** Gunalan, S. Keerthan, P. Guan, H. and Baniotopoulos, C. (2019), *Fastened Aluminium Lipped*

Channel Sections Subjected to Web Crippling under Two-Flange Loading Conditions - Experimental Study, Journal of Structural Engineering. DOI: 10.1061/(ASCE)ST.1943-541X.0002550

- **Alsanat, H.** Gunalan, S. Keerthan, P. Guan, H., Tsavdaridis KD. Numerical investigation of web crippling in fastened aluminium lipped channel sections under two-flange loading conditions, Structures. (Accepted on October 20th 2019, in press).
- **Alsanat, H.** Gunalan, S. Keerthan, P. Guan, H., Tsavdaridis KD. (2019), Web crippling investigations for unfastened aluminium lipped channel sections under one-flange loading conditions, Thin-walled Structures. (Submitted in December 3<sup>th</sup>, 2019).
- **Alsanat, H.** Gunalan, S. Keerthan, P. Guan, H., Tsavdaridis KD. (2020), bearing behaviour and design for fastened aluminium lipped channel sections under one-flange loading conditions, Engineering Structures. (under preparation, will be submitted January 2019).
- **Alsanat, H.** Gunalan, S. Keerthan, P. Guan, H. and Baniotopoulos, C. (2019), Web crippling behaviour of fastened aluminium lipped channel sections. 9th International Conference on Steel and Aluminium Structures (ICSAS19), Bradford, UK, ID 187.
- **Alsanat, H.** Gunalan, S. and Guan, H. (2018), Numerical study on aluminium lipped channel sections subjected two web crippling under two-flange loading conditions, 25th Australasian Conference on Mechanics of Structures and Materials, Brisbane, Australia, ID P108.
- **Alsanat, H.,** Gunalan, S. and Guan, H. (2018), Web crippling behaviour and design of aluminium lipped channel sections under two flange loading conditions, Eighth International Conference on Thin-Walled Structures - ICTWS18, Lisbon, Portugal, ID 26.

## AREAS OF INTEREST AND EXPERTISE

- Aluminium Structures
- Steel Structures
- Modular Structures
- Thin-walled Structures
- Innovative aluminium and Steel Products and Systems

- Fire Safety of Buildings
- Fire Resistance Materials (Enhanced Plasterboard)
- Thermal Performance of Materials and Products
- Numerical modelling

## PROFESSIONAL & TECHNICAL SKILLS

- Excellent networking, teamwork and leadership skills; gained through working with Consolidated Consultant Group - Jordan
- Excellent Project management skills developed throughout my work and university studies
- Highly developed analytical, research and problem-solving skills; developed throughout university research projects.
- Proficient in the use of structural analysis programs (SPACE GASS, and ETABS), modelling (ABAQUS) and AutoCAD (high skills in both 2D and 3D)

## PROFESSIONAL CONFERENCES & TRAINING

- **Learning for Teaching program**, the pathway to HEA fellowship, June to October 2019.
- The Second Inaugural Australian Young Researchers' Conference, Queensland University of Technology, Australia - December 11, 2018 (presenting)
- The Inaugural Australian Young Researchers' Conference, University of Queensland, Australia - December 8, 2017 (presenting)
- The Thirteen Creative Students Conference, Arab Students and Modern Global Scene by (A.C.T.S.A.U)", win the second prize-2009 (presenting)
- The Twelve Creative Students Conference, Arab Students and Modern Global Scene by (A.C.T.S.A.U), win the second prize-2008 (presenting)
- The queen Alia competition for community work "Design a Creative Green Building with (GTZ)"

## MEMBERSHIPS

- Associate Fellow of the Higher Education Academy (AFHEA), November, 2019.
- Cities Research Institute– Australia, 2016 - present
- JEA, Jordan Engineers Association, 2012 - Present
- EWB, Engineers Without Borders - Griffith University, 2014 – Present

## REFEREES

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| <ul style="list-style-type: none"><li>• <b>Professor Hong Guan</b><br/>Head of Civil Engineering<br/>School of Engineering and Built Environment Griffith University<br/>Gold Coast, Australia<br/>Email: h.guan@griffith.edu.au<br/>Phone: +617555 28708</li></ul> | <ul style="list-style-type: none"><li>• <b>Dr Shanmuganathan Gunalan</b><br/>Senior Lecturer<br/>School of Engineering and Built Environment<br/>Griffith University Gold Coast, Australia<br/>Email: s.gunalan@griffith.edu.<br/>Phone: +617373 57530</li></ul> |
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