

Assal Hussein

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EDUCATION

- Ph.D.** Civil Engineering 2019
Colorado State University, Fort Collins, CO
Ph.D. - Structural Engineering
Dissertation title: "Performance Assessment of Simple Blast Wall Systems"
Adviser: Hussam Mahmoud, Paul Heyliger
- M.Sc.** Civil Engineering 2005
University of Technology, Baghdad, Iraq
Thesis: "Nonlinear Behaviour of Steel Frames under Impact Loads"
Adviser: Eyad Al-Hachamee
- B.Sc.** Civil Engineering 1999
University of Technology, Al-Rasheed College for Engineering & Science, Baghdad, Iraq
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RESEARCH INTERESTS

- Structural Performance under Abnormal Loadings
 - Human Injuries from Exposure to Blast Incidents
 - Engineering Education
 - Evaluation Existing structures
 - Social, Health, and Economic Impacts due to Terrorism Activities
 - Engineering Education
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WORK EXPERIENCES

- Graduate Teaching Assistant Training, Colorado State University. 2019
 - Student/ IT /Marketing, College of Health and Human Sciences, Colorado State University.2016-Present
 - Design and conducted several blast experiments, Colorado State University May 2016- Sept. 2019
 - Free-air measurement tests.
 - Blast wall tests
 - Animal tissue tests
 - Cannon Blast Pressure test in a Football Stadium.
 - Head assistant of the Civil Engineering Dept., University of Diyala, Iraq. June 2012 – January 2013
 - Associate Director of Dept. of Scholarships and Cultural Relations, University of Diyala, Iraq. June 2011. – June 2012.
 - Ashour General Constructive Contracting Company, IRAQ, BAGHDAD January 2002 – April 2006
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COURSEWORK

- Graduate Teaching Assistant Training, Colorado State University. Fall - 2015
- At-Risk for University and College Faculty, Colorado State University. Fall - 2015
- Sexual Harassment Prevention for Student Employees, Colorado State University. Fall - 2015
- Computer Programming Course, Diyala University, Iraq. Nov. 2006
- Methods of Teaching Courses, Diyala University, Iraq. July, 2006

ACTIVITIES & HONORS

- Thank you letter, President of Diyala University, Iraq Fall,2020
- Appreciation and thank you letter, Minister of Higher Education, Iraq Summer,2020
- Kenneth G. Medearis Scholarship, Colorado State University Fall-2017
- Jack E. Cermak Wind Engineering Graduate Fellowship, Colorado State University Fall- 2015
- Graduate Teaching Assistantship, Colorado State University Fall - 2015
- International Merit Work-Study, Colorado State University Fall - 2015
- IRAQI Government Postgraduate Fellowship (HCED) 2013-2018
- Earthquake Research Institute. 2013-Present
- American Society of Civil Engineers. 2011-Present
- American Concrete Institute. 2011-Present

TEACHING EXPERIENCE

- Engineering Mechanics II, CE 101, University of Diyala Spring -2021
- Engineering Mechanics I, CE 101, University of Diyala Fall -2020
- Senior design project course, University of Diyala Spring -2020
- Concrete Technology II, CE 207, University of Diyala Spring -2020
- Engineering Mechanics II, CE 101, University of Diyala Spring -2020
- Engineering Mechanics I, CE 101, University of Diyala Fall -2019
- Concrete Technology I, CE 207, University of Diyala Fall -2019
- Teaching Assistant, Evaluation of Civil Engineering Materials, Colorado State University Fall- 2016
- Teaching Assistant, Design of Reinforced Concrete Structures, Colorado State University Spring- 2015
- Teaching Assistant, Evaluation of Civil Engineering Materials, Colorado State University Fall- 2015
- Teaching Assistant, Design of Reinforced Concrete Structures, Colorado State University Spring-2016

WORKSHOPS AND SEMINARS

- E-Learning in the Iraqi universities: Necessity and Requirements April. 2020
- How to write academic CV workshop, University of Diyala Dec. 2019
- PostDoctoral RCR workshop-Colorado State University Dec.-2018
- The Intensive Writing Retreat Week #1- (<https://csuwrites.colostate.edu/intensive-writing-retreats>).
- [Reflections on Teaching Writing A series of lunchtime conversations](#) "The Power of Creativity: Teaching Students to Explore Voices and Identity in their writing."
- [A Strategy for Making Lectures More Interactive](#)
- [Collaborative Digital Annotation](#)
- [Critically Reflective Teaching Practice](#)
- [Ethics & Diversity in Community-Based Research and Teaching](#)
- [Humanizing The Classroom](#)
- [Notice and Respond Assisting Students in Distress](#)
- [Reflections on Teaching Writing: A Series of Lunchtime conversations](#) "What a Syllabus? Helping Students Navigate College Writing Expectations."

POSTER AND PRESENTATION SESSIONS

- School of Biomedical Engineering graduate interview days, Colorado State University. Feb. 2019
- Graduate Student Showcase, Colorado State University. Nov. 2016

PUBLICATION

- Hussein, A. (2021). Dynamic Response Spectrum of Multi-Story Shear Frame Subjected to Moderate Ground Motion. *Diyala Journal of Engineering Sciences*, 14(2), 71-79.
 - Blast Protection Wall Systems: A Review of Literature, 16th International Conference on Structures under Shock and Impact. Wit Press. WIT Transactions on The Built Environment, 198, 93-109.
 - Hussein, A., Heyliger, P., & Mahmoud, H. (2020). Structural performance of a wood-sand-wood wall for blast protection. *Engineering Structures*, 219, 110954.
 - Hussein, A., Mahmoud, H., & Heyliger, P. (2020). Probabilistic analysis of a simple composite blast protection wall system. *Engineering Structures*, 203, 109836.
 - Hussein, A., Heyliger, P., & Mahmoud, H. (2019). Blast response of a thin oriented strand board wall. *Engineering Structures*, 201, 109835.
 - Hussein, A.T., Mahmoud, N.H., Heyliger, P.R. (2019). Numerical Evaluation of Simple Blast Wall System to be used in Developing Countries. Proceedings of the 7th International Conference on Structural Engineering, Mechanics and Computation (SEMC 2019), Cape Town, South Africa, 2– 4 September 2019 (2019).
 - Hussein, A. T. (2011). Elastic-Plastic non linear behaviors of suddenly loaded structures. *American Journal of Engineering and Applied Sciences*, 4(1).
 - Hussein, A. T. (2010). Non-linear analysis of SDOF system under blast load. *European Journal of Scientific Research*, 45(3), 430-437.
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