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學歷 EDUCATION

美國密西根大學土木工程博士、航太工程碩士	
University of Michigan, Ann Arbor, MI Ph.D. in Civil Engineering	May 2019
Dissertation: "Seismic Collapse Resilience of Buildings with Steel Moment Resisting Frames" M.S.E. in Aerospace Engineering	April 2018
國立臺灣大學結構工程碩士、土木工程學士	
National Taiwan University, Taiwan	
M.S. in Civil Engineering / Structural Engineering Division	June 2010
B.S. in Civil Engineering	June 2008
研究專長 RESEARCH INTERESTS	
鋼結構耐震設計 Seismic Design of Steel Structures	
結構崩塌模擬 Structural Collapse Simulation	
建築物震災韌性評估 Seismic Loss Assessment	
專業證照 CERTIFICATIONS	
中華民國結構工程技師 Structural Engineer, Taiwan	03/2012
獲獎 HONORS and AWARDS	
Raymond C. Reese Research Prize, American Society of Civil Engineers	2019/04
Rackham International Student Fellowship, University of Michigan, Ann Arbor	2015-2016
Government Scholarship to Study Abroad, Taiwan Ministry of Education	2015-2017
著作發表 PUBLICATIONS AND PRESENTATIONS	

期刊論文 Journal Publications

- Wu, T.-Y., El-Tawil, S., and McCormick, J. Forthcoming. "Influence of Seismic Design Evolution on the Seismic Collapse Behavior and Losses of Prototype Steel Buildings with Moment Resisting Frames." *J. Struct. Eng.* https://doi.org/10.1061/(ASCE)ST.1943-541X.0002743
- Sediek, O. A., Wu, T.-Y., McCormick, J., and El-Tawil, S. (2020). "Collapse Behavior of HSS Columns Under Combined Axial and Lateral Loading." *J. Struct. Eng.*, 146 (6): 04020094. <u>https://doi.org/10.1061/(ASCE)ST.1943-541X.0002637</u>.
- Wu, T.-Y., El-Tawil, S., and McCormick, J. (2019). "Effect of cyclic flange local buckling on the capacity of steel members." *Eng. Struct.*, 200. <u>https://doi.org/10.1016/j.engstruct.2019.109705</u>.
- Wu, T.-Y., El-Tawil, S., and McCormick, J. (2018). "Seismic collapse response of steel moment frames with deep columns." *J. Struct. Eng.*, 144 (9): 04018145. <u>https://doi.org/10.1061/(ASCE)ST.1943-541X.0002150</u>.
- Wu, T.-Y., El-Tawil, S., and McCormick, J. (2018). "Highly ductile limits for deep steel columns." *J. Struct. Eng.* 144 (4): 04018016. <u>https://doi.org/10.1061/(ASCE)ST.1943-541X.0002002</u>.
- Fogarty, J., Wu, T.-Y., and El-Tawil, S. (2017). "Collapse Response and Design of Deep Steel Columns Subjected to Lateral Displacement." *J. Struct. Eng.*, 143 (9): 04017130 <u>https://doi.org/10.1061/(ASCE)ST.1943-541X.0001848</u>.

研討會論文 Conference Publications and Oral Presentations

• Wu, T.-Y. (2020). "Collapse Behavior of Steel Buildings with Deep Columns Under Horizontal and Vertical Ground Motions." In 17th World Conf. on Earthquake Engineering. Tokyo: International Association of Earthquake

Engineering.

- Wu, T.-Y., El-Tawil, S., and McCormick, J. (2019). "Influence of seismic design code evolution on the seismic losses and resilience of steel buildings." In *International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake*. Taipei, Taiwan: National Center for Research of Earthquake Engineering.
- Wu, T.-Y., El-Tawil, S., and McCormick, J. (2019). "Seismic capacity of deep steel columns and their influence on the collapse response of steel special moment frames." In *International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake*. Taipei, Taiwan: National Center for Research of Earthquake Engineering.
- Sediek, O. A., **Wu, T.-Y.**, McCormick, J., and El-Tawil, S. (2019). "Seismic Behavior of HSS Columns Under Lateral Loading." In *International Conference in Commemoration of 20th Anniversary of the 1999 Chi-Chi Earthquake*. Taipei, Taiwan: National Center for Research of Earthquake Engineering.
- Wu, T.-Y., El-Tawil, S., and McCormick, J. (2018). "Ensuring highly ductile behavior for deep steel columns." In *11th National Conf. on Earthquake Engineering*. Oakland, CA: Earthquake Engineering Research Institute.
- Wu, T.-Y., El-Tawil, S., and McCormick, J. (2018). "Experimental study of cyclic flange local buckling." In *Structures Congress 2018*, 49–57. Reston, VA: ASCE.
- Wu, T.-Y., El-Tawil, S., and McCormick, J. (2018). "Seismic collapse response of a four-story steel special moment frame with deep columns." In *Structures Congress 2018*, 213–221. Reston, VA: ASCE.
- Wu, T.-Y., El-Tawil, S., and McCormick, J. (2017). "Effect of drift loading history on the collapse capacity of deep steel columns." In *Structures Congress 2017*, 485–494. Reston, VA: ASCE.
- Wu, T.-Y., El-Tawil, S., and McCormick, J. (2017). "Behavior of steel moment frames with deep column sections under seismic loading." In *16th World Conf. on Earthquake Engineering*. Tokyo: International Association of Earthquake Engineering.