

# Jiali (Jessie) Huang

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## EMPLOYMENT

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**Assistant Professor**, Department of Industrial Engineering and Engineering Management  
Western New England University, Springfield, MA 2023 - Present

## EDUCATION

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**North Carolina State University, Raleigh, NC, USA** 2017 - 2023  
Ph.D. in Industrial Engineering Minor: Statistics  
Advisor: Dr. Chang S. Nam

**Shandong University, Jinan, Shandong Province, China** 2013 - 2017  
B.S. in Industrial Engineering

## RESEARCH INTERESTS

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Human factors; Neuroergonomics; Human-machine interaction; Human cognition; Neuroimaging; Neural disorder

## PUBLICATIONS

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### Peer-Reviewed Journal Articles

1. **Huang, J.**, Choo, S., Pugh, Z. H., & Nam, C. S. (2021). Evaluating Effective Connectivity of Trust in HumanAutomation Interaction: A Dynamic Causal Modeling (DCM) Study. *Human Factors*. <https://doi.org/10.1177/0018720820987443>
2. **Huang, J.**, Jung, J., Nam, C. S. (2022). Estimating effective connectivity in alzheimer's disease progression: A dynamic causal modeling study. *Frontiers in Human Neuroscience*, <https://doi.org/10.3389/fnhum.2022.1060936>
3. **Huang, J.**, Pugh, Z. H., Kim, S., Nam, C. S. (2024). Brain dynamics of mental workload in a multitasking context: Evidence from dynamic causal modeling. *Computers in Human Behavior*, <https://doi.org/https://doi.org/10.1016/j.chb.2023.108043>
4. Pugh, Z. H., **Huang, J.**, Leshin, J., Lindquist, K. A., & Nam, C. S. (2022). Culture and Gender Modulate dlPFC Integration in the Emotional Brain: Evidence from Dynamic Causal Modeling. *Cognitive Neurodynamics*. <https://doi.org/10.1007/s11571-022-09805-2>
5. Nam, C. S., Choo, S., **Huang, J.**, & Park, J. (2020). Brain-to-Brain Neural Synchrony During Social Interactions: A Systematic Review on Hyperscanning Studies. *Applied Sciences*, 10(19), 6669. <https://doi.org/10.3390/app10196669>
6. **Huang, J.**, & Nam, C. S. (Under Review) Neural Correlates of Alzheimer's Disease Progression. *Psychiatry Research: Neuroimaging*.

## Peer-Reviewed Conference Proceedings

1. **Huang, J.**, Nam, C. S. (2022). Working Memory Load Impact on Effective Connectivity: a Dynamic Causal Modeling Study. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 66(1), 362366. <https://doi.org/10.1177/1071181322661139>.
2. **Huang, J.**, Traylor, Z., Choo, S., & Nam, C. S. (2021). Neural Correlates of Mental Workload During Multitasking: a Dynamic Causal Modeling Study. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 65(1), 13371341. <https://doi.org/10.1177/1071181321651003>
3. **Huang, J.**, Lindquist, K., & Nam, C. S. (2020). Dynamic Causal Modeling of Gender Differences in Emotion: Implications for Augmented Cognition. In *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 64(1), 5256. <https://doi.org/10.1177/1071181320641016> (Finalists for the Alphonse Chapanis Award)
4. Pugh Z., **Huang J.**, Lindquist K., Nam C.S. (2020) Neuroergonomics Behind Culture: A Dynamic Causal Modeling (DCM) Study on Emotion. In: Stephanidis C. et al. (eds) *HCI International 2020 Late Breaking Papers: Cognition, Learning and Games*. HCII 2020. Lecture Notes in Computer Science, vol 12425. Springer, Cham. [https://doi.org/10.1007/978-3-030-60128-7\\_17](https://doi.org/10.1007/978-3-030-60128-7_17)
5. **Huang, J.**, Nam, C. S. (2020). Decoding trust in human-automation interaction: A dynamic causal modeling study. In *IIE Annual Conference.Proceedings*, 1-6. <https://www.proquest.com/scholarly-journals/decoding-trust-human-automation-interaction/docview/2522431416/se-2?accountid=12725>

## Book Chapters

1. **Huang J.**, Nam C.S. (2020) Dynamic Causal Modeling (DCM) for EEG Approach to Neuroergonomics. In: Nam C. (eds) *Neuroergonomics. Cognitive Science and Technology*. Springer, Cham. [https://doi.org/10.1007/978-3-030-34784-0\\_8](https://doi.org/10.1007/978-3-030-34784-0_8)
2. **Huang J.**, Nam C.S. (2022) Reinforcement learning in EEG-based human-robot interaction. In: Nam, C. S., Jung, J. Y., Lee, S. (eds) *Human-Centered Artificial Intelligence: Research and Applications*. Elsevier Science. <https://doi.org/10.1016/B978-0-323-85648-5.00020-7>.

## HONORS AND AWARDS

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Edward P. Fitts Graduate Fellowship, NC State University	2017 - 2019
GSA Conferences and Travel Awards, NC State University	2019
Finalist for Alphonse Chapanis Student Paper Award, HFES	2020

## TEACHING

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<b>Western New England University</b>	
IE 212: Probability & Statistics	2024
ENGR 110: Data Acquisition Processing	2024
ENGR 103: Introduction to Engineering	2023

**North Carolina State University**

ISE 352: Fundamentals of Human-Machine Systems Design (Teaching Assistant) 2019 - 2020

ISE 540: Human Factors In Systems Design (Teaching Assistant) 2022