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ACADEMIC APPOINTMENTS

- Instructor, Psychiatry and Behavioral Sciences

Publications

PUBLICATIONS

- **Development and Validation of the Transcranial Magnetic Stimulation Reporting Assessment Tool (TMS-RAT).** *Brain stimulation*
  Székely, O., Holmes, N. P., Ashton, J., Breuer, F., Chen, H. Y., Di Chiaro, N. V., Duport, A., Frangou, P., Gwynne, L., Hassan, U., Lowe, C. J., Mathias, B., Peng, et al
  2026: 103155

- **Effects of Dorsolateral Prefrontal Cortex Trans cranial Magnetic Stimulation Revealed With Intracranial Electroencephalography**
  Tatz, J., Liu, X., Li, Z., Bruss, J., Pace, B., Hassan, U., Tsang, E., Howard, M., Keller, C., Boes, A., Jiang, J., Trapp, N.
  ELSEVIER SCIENCE INC.2026: S405

- **Fronto-insular circuit mechanisms of accelerated intermittent theta burst stimulation.** *Cell*
  Johnson, S. B., Rocks, D., Chalençon, L., Johnson, K., Hassan, U., Arefin, A., Akgül, G., Donatelle, A., Asher, H., Elbau, I., Estrin, D., Zhang, R., Lenz, et al
  2026

- **Transcranial magnetic stimulation to the dorsolateral prefrontal cortex modulates single-neuron activity in humans.** *bioRxiv : the preprint server for biology*
  Dickey, C. W., Hassan, U., Kawasaki, H., Rhone, A. E., Cline, C. C., Howard, M. A., Trapp, N. T., Boes, A. D., Berger, J. I., Keller, C. J.
  2026

- **LOCAL THETA POWER CHANGES AS A RELIABLE BIOMARKER OF ITBS TARGET ENGAGEMENT**
  Solomon, E., Cline, C., Hassan, U., Truong, J., Hartford, W., Forman, L., Keller, C.
  SPRINGERNATURE.2026

- **A Practical Preprocessing Pipeline for Concurrent TMS-iEEG: Critical Steps and Methodological Considerations.** *NeuroImage*
  Li, Z., Liu, X., Tatz, J., Tsang, E. W., Hassan, U., Wang, J. B., Keller, C. J., Trapp, N. T., Boes, A. D., Jiang, J.
  2025: 121677

- **Transcranial magnetic stimulation with intracranial recording in humans and primates: a review.** *Brain : a journal of neurology*
  Tsang, E. W., Tatz, J. R., Hassan, U., Berger, J. I., Boes, A. D., Keller, C. J., Russo, S., Kaskan, P., Jiang, J., Trapp, N. T.
  2025

- **DLPFC TMS Suppresses High-Frequency Neural Activity in the Human sgACC.** *Brain stimulation*
  Solomon, E. A., Hassan, U., Trapp, N. T., Boes, A. D., Keller, C. J.
  2025

- **Noninvasive profiling of input-output excitability curves in human prefrontal cortex.** *bioRxiv : the preprint server for biology*
  Chen, N. F., Hassan, U., Ross, J. M., Forman, L., Hartford, J. W., Gogulski, J., Parmigiani, S., Truong, J., Keller, C. J., Cline, C. C.
  2025
- **A Practical Preprocessing Pipeline for Concurrent TMS-iEEG: Critical Steps and Methodological Considerations.** *bioRxiv : the preprint server for biology*
  Li, Z., Liu, X., Tatz, J., Hassan, U., Wang, J. B., Keller, C. J., Trapp, N. T., Boes, A. D., Jiang, J.
  2025
- **Sensory Entrained TMS (seTMS) Enhances Motor Cortex Excitability.** *Human brain mapping*
  Ross, J. M., Forman, L., Gogulski, J., Hassan, U., Cline, C. C., Parmigiani, S., Truong, J., Hartford, J. W., Chen, N. F., Fujioka, T., Makeig, S., Pascual-Leone, A., Keller, et al
  2025; 46 (10): e70267
- **Pulsed inhibition of corticospinal excitability by the thalamocortical sleep spindle.** *Brain stimulation*
  Hassan, U., Okyere, P., Masouleh, M. A., Zrenner, C., Ziemann, U., Bergmann, T. O.
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- **Sensory Entrained TMS (seTMS) enhances motor cortex excitability.** *bioRxiv : the preprint server for biology*
  Ross, J. M., Forman, L., Gogulski, J., Hassan, U., Cline, C. C., Parmigiani, S., Truong, J., Hartford, J. W., Chen, N. F., Fujioka, T., Makeig, S., Pascual-Leone, A., Keller, et al
  2024
- **Using real-time EEG-triggered TMS to unravel the corticospinal excitability profile of sleep spindles and the effect of slow oscillation-spindle nesting**
  Groesser, S., Knietsch, K., Breuer, F., Seifpour, S., Grigoreva, A., Hassan, U., Ulf, Z., Himmerich, K., Bergmann, T.
  WILEY.2024
- **Effects of transcranial magnetic stimulation on the human brain recorded with intracranial electrocorticography.** *Molecular psychiatry*
  Wang, J. B., Hassan, U., Bruss, J. E., Oya, H., Uitermarkt, B. D., Trapp, N. T., Gander, P. E., Howard, M. A., Keller, C. J., Boes, A. D.
  2024