

Publications

JOURNAL ARTICLES

- 1. Ray, K. L., Griffin, N. R., Shumake, J., Alario, A., Allen, J. J. B., Beevers, C. G., & Schnyer, D. M. (2023). Altered electroencephalography resting state network coherence in remitted MDD. *Brain Research*, *1806*, 148282. https://doi.org/10.1016/j.brainres.2023.148282
- 2. Stein, M. B., Jain, S., Parodi, L., Choi, K. W., Maihofer, A. X., Nelson, L. D., Mukherjee, P., Sun, X., He, F., Okonkwo, D. O., Giacino, J. T., Korley, F. K., Vassar, M. J., Robertson, C. S., McCrea, M. A., Temkin, N., Markowitz, A. J., Diaz-Arrastia, R., Rosand, J., ... and, R. Z. (2023). Polygenic risk for mental disorders as predictors of posttraumatic stress disorder after mild traumatic brain injury. *Translational Psychiatry*, *13*(1). https://doi.org/10.1038/s41398-023-02313-9
- 3. Clark, A. L., McGill, M. B., Ozturk, E. D., Schnyer, D. M., Chanfreau-Coffinier, C., & and, V. C. M. (2023). Self-reported physical functioning, cardiometabolic health conditions, and health care utilization patterns in million veteran program enrollees with traumatic brain injury screening and evaluation program data. *Military Medical Research*, 10(1). https://doi.org/10.1186/s40779-022-00435-7
- 4. Chae, R., Barber, J., Temkin, N. R., & and, J. D. S. (2022). Dizziness after traumatic brain injury: A prospective TRACK-TBI analysis of risk factors, quality of life, and neurocognitive effects. *Otology & Neurotology*, 43(10), e1148-e1156. https://doi.org/10.1097/mao.000000000003710
- 5. Cai, L. T., Brett, B. L., Palacios, E. M., Yuh, E. L., Bourla, I., Wren-Jarvis, J., Wang, Y., Donald, C. M., Diaz-Arrastia, R., Giacino, J. T., Okonkwo, D. O., Levin, H. S., Robertson, C. S., Temkin, N., Markowitz, A. J., Manley, G. T., Stein, M. B., McCrea, M. A., Zafonte, R. D., ... Merchant, R. (2022). Emotional resilience predicts preserved white matter microstructure following mild traumatic brain injury. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*. https://doi.org/10.1016/j.bpsc.2022.08.015
- 6. Korley, F. K., Jain, S., Sun, X., Puccio, A. M., Yue, J. K., Gardner, R. C., Wang, K. K. W., Okonkwo, D. O., Yuh, E. L., Mukherjee, P., Nelson, L. D., Taylor, S. R., Markowitz, A. J., Diaz-Arrastia, R., Manley, G. T., Adeoye, O., Badatjia, N., Duhaime, A.-C., Ferguson, A., ... Zafonte, R. (2022). Prognostic value of day-of-injury plasma GFAP and UCH-L1 concentrations for predicting functional recovery after traumatic brain injury in patients from the US TRACK-TBI cohort: An observational cohort study. *The Lancet Neurology*, 21(9), 803–813. https://doi.org/10.1016/s1474-4422(22)00256-3
- 7. Madhok, D. Y., Rodriguez, R. M., Barber, J., Temkin, N. R., Markowitz, A. J., Kreitzer, N., Manley, G. T., Badjatia, N., Duhaime, A.-C., Feeser, V. R., Ferguson, A. R., Gardner, R., Gaudette, E., Gopinath, S., Grandhi, R., Jha, R., Keene, C. D., Donald, C. M., Madden, C., ... and, J. K. Y. (2022). Outcomes in patients with mild traumatic brain injury without acute intracranial traumatic injury. *JAMA Network Open*, 5(8), e2223245. https://doi.org/10.1001/jamanetworkopen.2022.23245
- 8. Palacios, E. M., Yuh, E. L., Donald, C. L. M., Bourla, I., Wren-Jarvis, J., Sun, X., Vassar, M. J., Diaz-Arrastia, R., Giacino, J. T., Okonkwo, D. O., Robertson, C. S., Stein, M. B., Temkin, N., McCrea, M. A., Levin, H. S., Markowitz, A. J., Jain, S., Manley, G. T., Mukherjee, P., ... and, R. Z. (2022). Diffusion tensor imaging reveals elevated diffusivity of white matter microstructure that is independently associated with long-term outcome after mild traumatic brain injury: A TRACK-TBI study. *Journal of Neurotrauma*, 39(19-20), 1318–1328. https://doi.org/10.1089/neu.2021.0408
- 9. Temkin, N., Machamer, J., Dikmen, S., Nelson, L. D., Barber, J., Hwang, P. H., Boase, K., Stein, M. B., Sun, X., Giacino, J., McCrea, M. A., Taylor, S. R., Jain, S., Manley, G., McCabe, C. J., Badjatia, N., Diaz-Arrastia, R., Duhaime, A.-C., Ferguson, A. R., ... and, R. Z. (2022). Risk factors for high symptom burden three months after traumatic brain injury and implications for clinical trial design: A transforming research and clinical knowledge in traumatic brain injury study. *Journal of Neurotrauma*, 39(21-22), 1524–1532. https://doi.org/10.1089/neu.2022.0113
- 10. Kulbe, J. R., Jain, S., Nelson, L. D., Korley, F. K., Mukherjee, P., Sun, X., Okonkwo, D. O., Giacino, J. T., Vassar, M. J., Robertson, C. S., McCrea, M. A., Wang, K. K. W., Temkin, N., Donald, C. L. M., Taylor, S. R., Ferguson, A. R., Markowitz, A. J., Diaz-Arrastia, R., Manley, G. T., ... and, R. Z. (2022). Association of day-of-injury plasma glial fibrillary acidic protein concentration and six-month posttraumatic stress disorder in patients with mild traumatic brain injury. *Neuropsychopharmacology*, 47(13), 2300–2308. https://doi.org/10.1038/s41386-022-01359-5
- Gaudette, Étienne, Seabury, S. A., Temkin, N., Barber, J., DiGiorgio, A. M., Markowitz, A. J., Manley, G. T., Badjatia, N., Duhaime, A.-C., Ferguson, A., Gopinath, S., Grandhi, R., Jha, R., Keene, C. D., Kitagawa, R., Donald, C. M., Maddedn, C., McCrea, M., Mukherjee, P., ... and, J. Y. (2022). Employment and economic outcomes of participants with mild traumatic brain injury in the TRACK-TBI study. *JAMA Network Open*, 5(6), e2219444. https://doi.org/10.1001/jamanetworkopen.2022.19444

- 12. Magnus, B. E., Balsis, S., Giacino, J. T., McCrea, M. A., Temkin, N. R., Whyte, J., Manley, G. T., Nelson, L. D., Badjatia, N., Diaz-Arrastia, R., Gopinath, S., Grandhi, R., Jain, S., Jain, R. M., Keene, C. D., Donald, C. M., Madden, C., Ngwenya, L. B., Okonkwo, D., ... and, R. Z. (2022). Improving the precision of the glasgow outcome scale-extended using item response theory: A TRACK-TBI study. *Journal of Neurotrauma*, 39(11-12), 870–878. https://doi.org/10.1089/neu.2021.0421
- 13. Fritz, H., Kinney, K. A., Wu, C., Schnyer, D. M., & Nagy, Z. (2022). Data fusion of mobile and environmental sensing devices to understand the effect of the indoor environment on measured and self-reported sleep quality. *Building and Environment*, 214, 108835. https://doi.org/10.1016/j.buildenv.2022.108835
- 14. Krishnamoorthy, V., Manley, G. T., Jain, S., Sun, S., Foreman, B., Komisarow, J., Laskowitz, D. T., Mathew, J. P., Hernandez, A., James, M. L., Vavilala, M. S., Markowitz, A. J., & and, F. K. K. (2022). Incidence and clinical impact of myocardial injury following traumatic brain injury: A pilot TRACK-TBI study. *Journal of Neurosurgical Anesthesiology*, 34(2), 233–237. https://doi.org/10.1097/ana.0000000000000772
- 15. Pease, M., Arefan, D., Barber, J., Yuh, E., Puccio, A., Hochberger, K., Nwachuku, E., Roy, S., Casillo, S., Temkin, N., Okonkwo, D. O., Wu, S., Badjatia, N., Bodien, Y., Duhaime, A.-C., Feeser, V. R., Ferguson, A. R., Foreman, B., Gardner, R., ... and, J. K. Y. (2022). Outcome prediction in patients with severe traumatic brain injury using deep learning from head CT scans. *Radiology*, 304(2), 385–394. https://doi.org/10.1148/radiol.212181
- 16. Kals, M., Kunzmann, K., Parodi, L., Radmanesh, F., Wilson, L., Izzy, S., Anderson, C. D., Puccio, A. M., Okonkwo, D. O., Temkin, N., Steyerberg, E. W., Stein, M. B., Manley, G. T., Maas, A. I. R., Richardson, S., Diaz-Arrastia, R., Palotie, A., Ripatti, S., Rosand, J., ... Zafonte, R. (2022). A genome-wide association study of outcome from traumatic brain injury. eBioMedicine, 77, 103933. https://doi.org/10.1016/j.ebiom.2022.103933
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- 18. Machamer, J., Temkin, N., Dikmen, S., Nelson, L. D., Barber, J., Hwang, P., Boase, K., Stein, M. B., Sun, X., Giacino, J., McCrea, M. A., Taylor, S. R., Jain, S., Manley, G., Badjatia, N., Bodien, Y., Diaz-Arrastia, R., Duhaime, A.-C., Feeser, V. R., ... and, R. Z. (2022). Symptom frequency and persistence in the first year after traumatic brain injury: A TRACK-TBI study. *Journal of Neurotrauma*, 39(5-6), 358–370. https://doi.org/10.1089/neu.2021.0348
- 19. Don, H. J., Davis, T., Ray, K. L., McMahon, M. C., Cornwall, A. C., Schnyer, D. M., & Worthy, D. A. (2022). Neural regions associated with gain-loss frequency and average reward in older and younger adults. *Neurobiology of Aging*, 109, 247–258. https://doi.org/10.1016/j.neurobiolaging.2021.10.001
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- 21. Wu, C., McMahon, M., Fritz, H., & Schnyer, D. M. (2022). Circadian rhythms are not captured equal: Exploring circadian metrics extracted by different computational methods from smartphone accelerometer and GPS sensors in daily life tracking. *DIGITAL HEALTH*, 8, 205520762211142. https://doi.org/10.1177/20552076221114201
- 22. Galimberti, S., Graziano, F., Maas, A. I. R., Isernia, G., Lecky, F., Jain, S., Sun, X., Gardner, R. C., Taylor, S. R., Markowitz, A. J., Manley, G. T., Valsecchi, M. G., Bellelli, G., Citerio, G., Ackerlund, C., Adams, H., Amrein, K., Andelic, N., Andreassen, L., ... Zafonte, R. (2022). Effect of frailty on 6-month outcome after traumatic brain injury: A multicentre cohort study with external validation. *The Lancet Neurology*, *21*(2), 153–162. https://doi.org/10.1016/s1474-4422(21)00374-4
- 23. Bodien, Y. G., Barra, A., Temkin, N. R., Barber, J., Foreman, B., Vassar, M., Robertson, C., Taylor, S. R., Markowitz, A. J., Manley, G. T., Giacino, J. T., Edlow, B. L., Badjatia, N., Duhaime, A.-C., Ferguson, A. R., PhD, E. G., Gopinath, S., Keene, C. D., McCrea, M., ... and, R. Z. (2021). Diagnosing level of consciousness: The limits of the glasgow coma scale total score. *Journal of Neurotrauma*, 38(23), 3295–3305. https://doi.org/10.1089/neu.2021.0199
- 24. Wu, C., Fritz, H., Miller, M., Craddock, C., Kinney, K., Castelli, D., & Schnyer, D. (2021). Exploring post COVID-19 outbreak intradaily mobility pattern change in college students: A GPS-focused smartphone sensing study. Frontiers in Digital Health, 3. https://doi.org/10.3389/fdgth.2021.765972
- 25. Beevers, C. G., Hsu, K. J., Schnyer, D. M., Smits, J. A. J., & Shumake, J. (2021). Change in negative attention bias mediates the association between attention bias modification training and depression symptom improvement. *Journal of Consulting and Clinical Psychology*, 89(10), 816–829. https://doi.org/10.1037/ccp0000683

- 26. Wu, C., Fritz, H., Bastami, S., Maestre, J. P., Thomaz, E., Julien, C., Castelli, D. M., de Barbaro, K., Bearman, S. K., Harari, G. M., Craddock, R. C., Kinney, K. A., Gosling, S. D., Schnyer, D. M., & Nagy, Z. (2021). Multi-modal data collection for measuring health, behavior, and living environment of large-scale participant cohorts. *GigaScience*, 10(6). https://doi.org/10.1093/gigascience/giab044
- 27. McMahon, M., Malneedi, Y., Worthy, D. A., & Schnyer, D. M. (2021). Rest-activity rhythms and white matter microstructure across the lifespan. Sleep, 44(6). https://doi.org/10.1093/sleep/zsaa266
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- 30. Hsu, K. J., Shumake, J., Caffey, K., Risom, S., Labrada, J., Smits, J. A. J., Schnyer, D. M., & Beevers, C. G. (2021). Efficacy of attention bias modification training for depressed adults: A randomized clinical trial. *Psychological Medicine*, 52(16), 3865–3873. https://doi.org/10.1017/s0033291721000702
- 31. Bazarian, J. J., Elbin, R. J., Casa, D. J., Hotz, G. A., Neville, C., Lopez, R. M., Schnyer, D. M., Yeargin, S., & Covassin, T. (2021). Validation of a machine learning brain electrical activitybased index to aid in diagnosing concussion among athletes. *JAMA Network Open*, 4(2), e2037349. https://doi.org/10.1001/jamanetworkopen.2020.37349
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- 35. McCrea, M. A., Giacino, J. T., Barber, J., Temkin, N. R., Nelson, L. D., Levin, H. S., Dikmen, S., Stein, M., Bodien, Y. G., Boase, K., Taylor, S. R., Vassar, M., Mukherjee, P., Robertson, C., Diaz-Arrastia, R., Okonkwo, D. O., Markowitz, A. J., Manley, G. T., Adeoye, O., ... and, R. Z. (2021). Functional outcomes over the first year after moderate to severe traumatic brain injury in the prospective, longitudinal TRACK-TBI study. *JAMA Neurology*, 78(8), 982. https://doi.org/10.1001/jamaneurol.2021.2043
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- 38. Rigney, A. E., Schnyer, D. M., Hu, X., & Beer, J. S. (2021). Mechanisms of a spotless self-image: Navigating negative, self-relevant feedback. Self and Identity, 20(8), 1057–1076. https://doi.org/10.1080/15298868.2020.1806918
- 39. Yuh, E. L., Jain, S., Sun, X., Pisică, D., Harris, M. H., Taylor, S. R., Markowitz, A. J., Mukherjee, P., Verheyden, J., Giacino, J. T., Levin, H. S., McCrea, M., Stein, M. B., Temkin, N. R., Diaz-Arrastia, R., Robertson, C. S., Lingsma, H. F., Okonkwo, D. O., Maas, A. I. R., ... and, R. Z. (2021). Pathological computed tomography features associated with adverse outcomes after mild traumatic brain injury. *JAMA Neurology*, 78(9), 1137. https://doi.org/10.1001/jamaneurol.2021.2120

- 40. Stein, M. B., Yuh, E., Jain, S., Okonkwo, D. O., Donald, C. L. M., Levin, H., Giacino, J. T., Dikmen, S., Vassar, M. J., Diaz-Arrastia, R., Robertson, C. S., Nelson, L. D., McCrea, M., Sun, X., Temkin, N., Taylor, S. R., Markowitz, A. J., Manley, G. T., Mukherjee, P., ... Zafonte, R. (2021). Smaller regional brain volumes predict posttraumatic stress disorder at 3 months after mild traumatic brain injury. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 6(3), 352–359. https://doi.org/10.1016/j.bpsc.2020.10.008
- 41. Griffin, N. R., & Schnyer, D. M. (2020). Memory distortion for orthographically associated words in individuals with depressive symptoms. *Cognition*, 203, 104330. https://doi.org/10.1016/j.cognition.2020.104330
- 42. Hsu, K. J., McNamara, M. E., Shumake, J., Stewart, R. A., Labrada, J., Alario, A., Gonzalez, G. D. S., Schnyer, D. M., & Beevers, C. G. (2020). Neurocognitive predictors of self-reported reward responsivity and approach motivation in depression: A data-driven approach. *Depression and Anxiety*, 37(7), 682–697. https://doi.org/10.1002/da.23042
- 43. Yue, J. K., Phelps, R. R. L., Winkler, E. A., Deng, H., Upadhyayula, P. S., Vassar, M. J., Madhok, D. Y., Schnyer, D. M., Puccio, A. M., Lingsma, H. F., Yuh, E. L., Mukherjee, P., Valadka, A. B., Okonkwo, D. O., & Manley, G. T. (2020). Substance use on admission toxicology screen is associated with peri-injury factors and six-month outcome after traumatic brain injury: A TRACK-TBI pilot study. *Journal of Clinical Neuroscience*, 75, 149–156. https://doi.org/10.1016/j.jocn.2020.02.021
- 44. Madhok, D., Yue, J., Sun, X., Suen, C., Coss, N., Jain, S., & and, G. M. (2020). Clinical predictors of 3- and 6-month outcome for mild traumatic brain injury patients with a negative head CT scan in the emergency department: A TRACK-TBI pilot study. *Brain Sciences*, 10(5), 269. https://doi.org/10.3390/brainsci10050269

PREPRINTS

1. Schnyer, D. M., & Dobbins, I. (2022). *Priming, to appear in oxford handbook of human memory*. https://doi.org/10.31219/osf.io/4jdv7

BOOKS

BOOK CHAPTERS

Professional Presentations ______ Conference Abstracts

Exploring the relationship between multiple indoor air pollutants and objectively-measured sleep quality in university students

16TH CONFERENCE OF THE INTERNATIONAL SOCIETY OF INDOOR AIR QUALITY AND CLIMATE: CREATIVE AND SMART SOLUTIONS FOR BETTER BUILT ENVIRONMENTS, INDOOR AIR 2020

2020

2020 - 2025

DOD.

Honors_

Funding _____

post-traumatic epilepsy

Clinical Validation of Serum Neurofilament Light as a Biomarker of Traumatic Axonal Injury

National Institute of Neurological Disorders and Stroke, U01NS114140

FUNDING: \$1,778,129

Clinical Evaluation of i-STAT TBI Test

Abbott Diagnostics,

2020 - 2024

TRACK-TBI Epileptogenesis Project. The project aims to study individuals with

FUNDING: 2020 - 2024

Alinity i TBI Specimen Collection and Testing Protocol; and Alinity i TBI Fresh Sample Testing

Abbott Laboratories, Core
Diagnostics & UCSF,
2022 - 2022

Development of Attention Bias Modification for Depression FUNDING: \$1,972,968

NIMH, R33MH109600

2017 - 2021

A computational neuroscience approach to frontal compensation in decision-making

National Institute on Aging,

R01AG043425

2014 - 2020

Transforming Research and Clinical Knowledge in Traumatic Brain Injury

National Institute of Neurological Disorders and Stroke, U01NS086090

Disorders und Stroke, 001N3000030

2013 - 2020

Service____

FUNDING: \$1,736,173

FUNDING: \$19,094,636

Department of Psychology, UT Austin	Austin, US
DEPARTMENT CHAIRPERSON	2019 - 2023
University of Texas at Austin	TX, US
COMMITTEE MEMBER - DIRECTOR OF THE ANIMAL RESEARCH CENTER SEARCH	2023 - 2023
NIH - ETTN-C (10) Emerging Technologies and Training in The Neurosciences Integrated Review Group	Bethesda, US
GRANT REVIEWER	2020 - 2022
NIH - APDA Adult Psychopathology and Disorders of Aging Study Section	Bethesda, US
Grant Reviewer	2021 - 2021
NIH - MESH Biobehavioral Mechanisms of Emotions, Stress, and Health (MESH)	Bethesda, US
GRANT REVIEWER	2020 - 2020

Mentoring and Teaching

MENTORING

McKenna McGill

DISSERTATION SUPERVISOR	2021 - present
Peter Wu	
Post Doctoral Fellow	2019 - 2022
Megan McMahon	
DISSERTATION SUPERVISOR	2018 - 2022
Derek Pisner	
DISSERTATION SUPERVISOR	2017 - 2021
Kimberly Ray	
Post Doctoral Fellow	2018 - 2021
Guadalupe Gonzalez	
DISSERTATION SUPERVISOR	2015 - 2020

TEACHING