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Education

- 2017 *PhD*, Integrative Neuroscience
 Stony Brook University, Stony Brook, NY, USA
- 2009 *BA*, Psychology
 Park University, Parkville, MO, USA

Professional Appointments

FACULTY APPOINTMENTS

- 2024 – **Yale University School of Medicine**, New Haven, CT
 Assistant Professor, Department of Psychiatry

POSTDOCTORAL APPOINTMENTS

- 2018 – 2024 **Yale University School of Medicine**, New Haven, CT
 Postdoctoral Associate, Department of Psychiatry

PROFESSIONAL MEMBERSHIPS

- 2024 – *Associate Editor*, *Brain Sciences*
2022 – *Council Member*, *Janeway Society*
2021 – *Associate Editor*, *Discover Mental Health*

Research Support

ACTIVE SUPPORT

2022 – 2027 **K99/R00** (AA029716 - NIAAA) *Title: “Avoidance learning and pain circuit dysfunction in alcohol use disorders”*

Role: Principal Investigator

2023 – 2025 **Young Investigator Grant** (30682 - BBRF) *Title: “Pain circuit and avoidance learning dysfunction in comorbid depression and alcohol use disorder”*

Role: Principal Investigator

Honors & Awards

2023 *Harry June Travel Award – American College of Neuropsychopharmacology (ACNP), Tampa, Florida*

2022 *Travel Award – Behavior, Biology, and Chemistry Translational Research in Addiction, San Antonio*

2016 *John Neale Endowed Graduate Student Excellence Fund in Psychology, Stony Brook University*

2016 *Stony Brook University Biopsychology Founders Endowed Fellowship, Stony Brook University*

2007 *Award for Civic Engagement in Journalism, Park University*

Scholarly Publications

1. **Le T. M.**, Oba T., Li CSR (2025). Diminished reward circuit response underlies pain avoidance learning deficits in problem drinkers. *NeuroImage: Clinical*. DOI: 10.1016/j.nicl.2025.103762
2. **Le T. M.**, Hughes F. A., Oba T., Li CSR (2025). Neural, Motivational, and Psychological Measures of Pain avoidance Predict Future Alcohol Use in Adult Drinkers. *Addiction Biology*. DOI: 10.1111/adb.70020
3. **Le T. M.**, Oba T., Couch L., McInerney L., Li CSR (2024). Neural Correlates of Proactive Avoidance Deficits and Alcohol Use Motives in Problem Drinking. *Translational Psychiatry*. DOI: 10.1038/s41398-024-03039-y
4. **Le T. M.**, Oba T., Couch L., McInerney L., Li CSR (2024). The neural correlates of individual differences in reinforcement learning during pain avoidance and reward seeking. *eNeuro*, DOI: 10.1523/ENEURO.0437-23.2024
5. Tan Y., Yang K., Du R., Yang Q., **Le T. M.**, Zhao R., Li C.S.R (2024). Cortical thickness of the inferior parietal lobule as a potential predictor of relapse in men with alcohol dependence. *Brain Imaging and Behavior*.
6. Dong X., Zhornitsky S., Wang W., **Le T. M.**, Chen Y., Chaudhary S., Li C.S.R (2023), Resting-State Functional Connectivity of the Dorsal and Ventral Striatum, Impulsivity, and Severity of Use in Recently Abstinent Cocaine-Dependent Individuals. *International Journal of Neuropsychopharmacology*, 26 (9), 627-638
7. Chaudhary S., Chen Y., Zhornitsky S., **Le T. M.**, Zhang S., Chao H., Li C.S.R (2023), The effects of age on the severity of problem drinking: Mediating effects of positive alcohol expectancy and neural correlates. *Addiction Biology*, 28 (6), e13278

8. **Le T. M.**, Malone T., Li CSR (2022). Positive Alcohol Expectancy and Resting-state Functional Connectivity of the Insula in Problem Drinking. *Drug and Alcohol Dependence*, (231), 109248. DOI: 10.1016/j.drugalcdep.2021.109248
9. Chen Y., Ide J., Li C., Chaudhary S., **Le T. M.**, Wang W., Zhornitsky S., Zhang S., Li CSR (2022). Gray matter volumetric correlates of dimensional impulsivity traits in children: Sex differences and heritability. *Human Brain Mapping*, (43)8. DOI: 10.1002/hbm.25810
10. Chen Y., Dhingra I., **Le T. M.**, Zhornitsky S., Zhang S., Li C.S.R (2022). Win and loss responses in the monetary incentive delay task mediate the link between depression and problem drinking. *Brain sciences*, 12 (12), 1689
11. **Le T. M.**, Chen Y., Chaudhary, S., Li CSR (2022). Problem drinking and the interaction of reward, negative emotion, and cognitive control circuits during cue-elicited craving. *Addiction Neuroscience*, (1), 100004, 1-11. DOI: 10.1016/j.addicn.2021.100004
12. **Le T. M.**, Potvin S., Zhornitsky S., Li CSR (2021). Distinct patterns of prefrontal cortical disengagement during inhibitory control in addiction: A meta-analysis based on population characteristics. *Neuroscience and Biobehavioral Reviews*, 127, 255-69. DOI: 10.1016/j.neubiorev.2021.04.028
13. Zhornitsky S., Chaudhary S., **Le T. M.**, Chen Y., Potvin S., Chao H., van Dyck C., Li CSR (2021). Cognitive dysfunction and cerebral volumetric deficits in individuals with Alzheimer's disease, alcohol use disorder, and dual diagnosis. *Psychiatry Research: Neuroimaging*. DOI: 10.1016/j.psychresns.2021.111380
14. Li, G., **Le T. M.**, Wang W., Zhornitsky S., Chen Y., Chaudhary S., Zhu T., Bi J., Tang X., Li CSR (2021). Perceived stress, self-efficacy, and the cerebral morphometric markers in binge-drinking young adults. *NeuroImage – Clinical*, 32, 102866. DOI: 10.1016/j.nicl.2021.102866
15. Li G., Chen Y., **Le T. M.**, Wang W., Tang X., Li CSR (2021). Neural correlates of individual variation in two-back working memory and the relationship with fluid intelligence. *Scientific reports*, 11 (1), 1-13. DOI: 10.1038/s41598-021-89433-8
16. Li G., Chen Y., **Le T. M.**, Zhornitsky S., Dhingra I., Wang W., Tang X., Li CSR (2021). Perceived friendship and binge drinking in young adults: a study of the Human Connectome Project data. *Drug and Alcohol Dependence* (224). DOI: 10.1016/j.drugalcdep.2021.108731
17. **Le T. M.**, Wang W., Zhornitsky S., Dhingra I., Chen Y., Zhang S., Li CSR (2021). The neural processes interlinking social isolation, social support, and problem alcohol use. *International Journal of Neuropsychopharmacology*. DOI: 10.1093/ijnp/pyaa086
18. Zhornitsky S., Le T. M., Wang W., Dhingra I., Chen Y., Li CSR (2021). Midcingulate cortical activations inter-relate chronic craving and physiological responses to negative emotions in cocaine addiction. *Biological Psychiatry Global Open Science*. DOI: 0.1016/j.bpsgos.2021.03.003
19. Zhornitsky S., Dhingra I., **Le T. M.**, Wang W., Li SCR (2021). Reward-related responses and tonic craving in cocaine addiction: an imaging study of the monetary incentive delay task. *International Journal of Neuropsychopharmacology*, pyab016, DOI: 10.1093/ijnp/pyab016
20. Dhingra I., Zhang S., Zhornitsky S., Wang W., **Le T. M.**, Li SCR (2021). Sex differences in neural responses to reward and the influences of individual reward and punishment sensitivity. *BMC Neuroscience*, 22 (1), 1-14. DOI: 10.1186/s12868-021-00618-3

21. Zhang S., Zhornitsky S., Wang W., **Le T. M.**, Dhingra I., Chen Y., Li CSR (2020). Resting state hypothalamic and dorsomedial prefrontal cortical connectivity of the periaqueductal gray in cocaine addiction. *Addiction Biology*, e12989, DOI: 10.1111/adb.12989
22. **Le T. M.**, Huang A. S., O'Rawe J., Leung, H-C. (2020). Functional neural network configuration in late childhood varies by age and cognitive state. *Developmental Cognitive Neuroscience*, 45, DOI: 10.1016/j.dcn.2020.100862
23. **Le T. M.**, Zhornitsky S., Wang, W., Li CSR (2020). Perceived Burdensomeness and Neural Responses to Ostracism in the Cyberball Task. *Journal of Psychiatric Research*, 130, DOI: 10.1016/j.jpsychires.2020.06.015
24. Zhang S., Zhornitsky S., Wang W., Dhingra I., **Le T. M.**, Li CSR (2020). Cue-elicited functional connectivity of the periaqueductal gray and tonic cocaine craving. *Drug and Alcohol Dependence*, 216. DOI: 10.1016/j.drugalcdep.2020.108240
25. Li G., Zhang S., **Le T. M.**, Tang X., Li CSR (2020). Neural responses to negative facial emotions: sex differences in the correlates of individual anger and fear traits. *NeuroImage*, 117171. DOI: 10.1016/j.neuroimage.2020.117171
26. Li G., Zhang S., **Le T. M.**, Tang X., Li CSR (2020). Neural Responses to Reward in a Gambling Task: Sex Differences and Individual Variation in Reward-Driven Impulsivity. *Cerebral Cortex Communications*. DOI: 10.1093/texcom/tgaa025
27. **Le T. M.**, Zhornitsky S., Zhang S., Li CSR (2020). Pain and reward circuits antagonistically modulate alcohol expectancy to regulate drinking. *Translational Psychiatry*. 10(220). DOI: 10.1038/s41398-020-00909-z
28. Ide J., Li H-T., Chen Y., **Le T. M.**, Li C., Zhornitsky S., Li, CSR (2020). Gray Matter Volumetric Correlates of Behavioral Activation and Inhibition System Traits in Children: An Exploratory Voxel-Based Morphometry Study of the ABCD Project Data. *NeuroImage*, 117085. DOI: 10.1016/j.neuroimage.2020.117085
29. Wang W., Zhornitsky S., **Le T. M.**, Zhang S., Li CSR (2020). Heart Rate Variability, Cue-Evoked Ventromedial Prefrontal Cortical Response, and Problem Alcohol Use in Adult Drinkers, *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 5(6), 619-628. DOI: 10.1016/j.bpsc.2019.12.013
30. **Le T. M.**, Chao H., Levy I., Li CSR (2020), Age-Related Changes in the Neural Processes of Reward-Directed Action and Inhibition of Action. *Frontiers in Psychology*, 11, 1121
31. Yang K., Tan Y., Yang Q., Niu Y., Fan F., Chen S., Luo X., Tan S., Wang Z., Tong J., Yang F., **Le T. M.**, Li CSR (2020). Cortical thickness and apathy in patients with alcohol dependence, *Frontiers in Psychiatry*, 11, 364
32. Zhornitsky S., **Le T. M.**, Dhingra I., Adkinson B., Potvin S., Li CSR (2020). Interpersonal risk factors of suicide in cocaine dependence: association with self-esteem, personality traits, and childhood abuse. *Suicide and Life-Threatening Behavior*. DOI: 10.1111/sltb.12621
33. **Le T. M.**, Ding-Lieh L., Ide J., Zhang S., Zhornitsky S., Wang W., Li CSR. (2020). The interrelationship of body mass index with gray matter volume and resting-state functional connectivity of the hypothalamus. *International Journal of Obesity*. DOI: 10.1038/s41366-019-0496-8
34. **Le T. M.**, Wang W., Zhornitsky S., Dhingra I., Zhang S., Li CSR. (2020). Interdependent neural correlates of reward and punishment sensitivity during rewarded action and inhibition of action. *Cerebral Cortex*, 30(3) 1662–1676. DOI: 10.1093/cercor/bhz194
35. **Le T. M.**, Zhang S., Zhornitsky S., Wang W., Li CSR. (2020). Neural correlates of reward-directed action and inhibition of action. *Cortex*. 123, 42-56, DOI: 10.1016/j.cortex.2019.10.007

36. Dhingra I., Zhang S., Zhornitsky S., **Le T. M.**, Wang, W., Chao H., Levy I., Li. CSR. (2020). The effects of age on reward magnitude processing in the monetary incentive delay task. *NeuroImage*, 116368, DOI: 10.1016/j.neuroimage.2019.116368
37. **Le T. M.**, Zhornitsky S., Wang W., Ide J. S., Li CSR. (2019). Posterior cingulate cortical activity during active avoidance mediates the relationship between punishment sensitivity and problem drinking. *Journal of Neuroscience*, 39 (32) 6354-6364, DOI: 10.1523/JNEUROSCI.0508-19.2019
38. **Le T. M.**, Zhornitsky S., Wang W., Zhang S., Li CSR. (2019). Problem drinking alters gray matter volume and food cue responses of the lateral orbitofrontal cortex. *Addiction Biology*. DOI: 10.1111/adb.12857
39. **Le T. M.**, Wang W., Zhornitsky S., Dhingra I., Zhang S., Li CSR. (2019). Reward sensitivity and electrodermal responses to actions and outcomes in a go/no-go task. *PLOS One*, 14(7): e0219147. DOI: 10.1371/journal.pone.0219147
40. Zhang S., Zhornitsky S., **Le T. M.**, Li. CSR. (2019). Hypothalamic Responses to Cocaine and Food Cues in Individuals with Cocaine Dependence. *The International Journal of Neuropsychopharmacology*. 2(12), 754–764. DOI: 10.1093/ijnp/pyz044
41. Wang W., Zhornitsky S., **Le T. M.**, Dhingra I., Zhang S., Krystal J., Li. CSR. (2019). Cue-elicited craving, thalamic activity, and physiological arousal in adult non-dependent drinkers. *Journal of Psychiatric Research*, 116, 74-82. DOI: 10.1016/j.jpsychires.2019.06.005
42. Wang W., Li. C., Joormann J., Zhornitsky S., **Le T. M.**, Li SCR., (2019). Social anxiety, posterior insula activation, and autonomic response during self-initiated action in a Cyberball game. *Journal of Affective Disorders*, 225, 158-167. DOI: 10.1016/j.jad.2019.05.046
43. Zhornitsky S., Zhang S. Ide J. S., Chao H. H., Wang W., **Le T. M.**, Leeman R. F., Bi J., Krystal J. H., Li CSR. (2018). Alcohol Expectancy and Cerebral Responses to Cue-Elicited Craving in Adult Nondependent Drinkers, *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 4(5), 493-504. DOI: 10.1016/j.bpsc.2018.11.012
44. Wang W., Worhunsky P. D., Zhang S., **Le T. M.**, Potenza M., Li CSR. (2018). Response inhibition and fronto-striatal-thalamic circuit dysfunction in cocaine addiction, *Drug and Alcohol Dependence*, 192 (1), 137-145. DOI: 10.1016/j.drugalcdep.2018.07.037
45. **Le T. M.**, Borghi A. J., Kujawa A. J., Klein D. N., Leung, H-C., (2017). Alterations in visual cortical activation and connectivity with prefrontal cortex during working memory updating in major depressive disorder, *NeuroImage: Clinical*, 14, 43-53. DOI: 10.1016/j.nicl.2017.01.004