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Education

- 2017 *PhD*, Integrative Neuroscience
Stony Brook University, Stony Brook, NY, USA
- 2009 *BA*, Psychology
Park University, Parkville, MO, USA
- 2005 *BA*, Economics
Monash University, Clayton, Vic, Australia

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 interrelate 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