

# Thang M. Le

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## EDUCATION

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*Postdoctoral training*, **Yale School of Medicine**, Department of Psychiatry, 2018 – present  
Advisor: Chiang-shan R. Li  
*Ph.D., Integrative Neuroscience*, **Stony Brook University**, Stony Brook, NY, USA, 2017  
Advisor: Hoi-Chung Leung  
*B.A., Psychology*, **Park University**, Parkville, MO, USA, 2009  
Advisor: Dennis D. Kerkman

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## ACADEMIC POSITIONS

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*Postdoctoral Associate*, **Yale School of Medicine**, Department of Psychiatry – New Haven, CT, 2018 – present  
*Graduate student/Teaching assistant*, **Stony Brook University** – Stony Brook, NY, 2011 – 2017

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## GRANTS

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**K99/R00** - AA029716: *Avoidance learning and pain circuit dysfunction in alcohol use disorders*, 2022 – 2027  
Role: PI

**BBRF Young Investigator Grant**: *Pain circuit and avoidance learning dysfunction in comorbid depression and alcohol use disorder*, 2023-2025  
Role: PI

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## HONORS & AWARDS

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

The John Neale Endowed Graduate Student Excellence Fund in Psychology, Stony Brook University, 2016  
The Stony Brook University Biopsychology Founders Endowed Fellowship, Stony Brook University, 2016  
Award for Civic Engagement in Journalism, Park University, 2007

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## PROFESSIONAL MEMBERSHIPS

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*Council member*, Janeway Society, 2022 – present  
*Associate Editor*, Discover Mental Health, Springer Nature, 2021 – present

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## PEER-REVIEWED PUBLICATIONS

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1. **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
2. **Le T. M.**, Chen Y., Chaudhary, S., Li CSR (2021). 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
3. **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
4. 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
5. 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
6. 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
7. 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
8. **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

9. 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
10. 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
11. 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
12. 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
13. **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
14. **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
15. 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
16. 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
17. 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
18. **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
19. 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
20. 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
21. **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

22. 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
23. 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
24. **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
25. **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
26. **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
27. 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
28. **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
29. **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
30. **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
31. 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
32. 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
33. 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
34. 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

35. 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
36. **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

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## CONFERENCE PRESENTATIONS

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### 2019

Le T. M., Wang W., Zhornitsky S., Dhingra I., Zhang S., Li CSR. Posterior cingulate cortical response to active avoidance mediates the relationship between punishment sensitivity and problem drinking. Poster presented at the annual meeting of the Society for Neuroscience, Chicago, IL.

### 2018

Le T. M., Wang W., Zhornitsky S., Dhingra I., Zhang S., Li CSR. Interdependent neural correlates of reward and punishment sensitivity during rewarded action and inhibition of action. Poster presented at the annual meeting of the Society for Neuroscience, San Diego CA.

### 2017

Le T. M., Huang A. S., Leung H-C., Reconfiguration of functional neural network structure across cognitive states in late childhood. Poster presented at the annual meeting of the Society for Neuroscience, Washington DC.

### 2016

Huang, A.S., Le T. M., & Leung, H-C., Task dependent coupling between thalamus and visual association regions during selective working memory. Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA.

Huang A.S., Le T. M., Leung, H., Thalamic activity modulates visual association activity during selective working memory maintenance. Poster presented at Cognitive Neuroscience Society, New York City, NY.

### 2015

Le T. M., Kang J., Tysz D., Klein D. N., Leung, H., Alteration of cortical activity at local and network levels during visual working memory updating in major depressive disorder. Poster presented at Society for Neuroscience, Chicago, IL.

### 2014

Le T. M., Kujawa A., Klein D. N., Dean, W., Baylon G., Leung H., Neural correlates of selective visual processing during working memory in individuals with major depressive disorder. Poster presented at Society for Neuroscience, Washington DC.

### 2008

Kerkman, D. D., Le T. M., Bermudez, J. A., Saucedo, M. R., Capello, H. M, & Sanchez, M. M., Americans, Spaniards, and Mexicans: Asymmetrical implicit attitude towards Mexican Mestizos versus Whites. Poster presented at the Social and Personality Poster Session, Association for Psychological Sciences, Chicago, IL.

Barr, A., Le T. M., & Shifflett, S., Evidence of confirmation bias in freshmen writing assignments. Poster presentation at the 28<sup>th</sup> Annual Great Plains Students Psychology Convention, Emporia, KS.

### **2007**

Stea, D., Kerkman, D. D., Le T. M., México está en Sur América y el Río Bravo mide 1500 km [Mexico is in South America and the Rio Grande is 1500km Wide]. Paper presented as part of an invited symposium entitled, "La investigación de vanguardia en Psicología Ambiental" [Development at the Forefront of Environmental Psychology Symposium], Dra. Patricia Ortega Andeane, Mexico City, Mexico.

Kerkman, D.D., Le T. M., Anti-Mexican Implicit Attitudes Predict Exaggerated Distance from America to Mexico. Poster presented at the Culture and Cognition Poster Session, Association for Psychological Sciences, Washington, D.C.

Kerkman, D. D., Le T. M., Welliver, T., Cappello, H. M., Marin, M., Recio, M., Implicit Attitudes toward Mestizos Predict Americans' Social Distancing of Mexico, but not Spaniards'. Invited presentation, University of Nuevo Leon, Monterrey, Mexico.

### **2006**

Kerkman, D. D., Le T. M., Welliver, T., Cappello, H. M., Marin, M., Recio, M., Americans' and Spaniards' Mental Maps of North America and Western Europe. Paper presented at the first annual Park University Psychology Association / Psi Chi Research Conference, Parkville, MO.

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## TEACHING EXPERIENCE

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- Research Methods and Writing in Psychology, Spring 2013, Fall & Spring 2016
- Abnormal Psychology, Spring 2014