

# Michelle Thai

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## EDUCATION

- August 2022      **University of Minnesota**, Twin Cities, MN  
**Doctor of Philosophy in Psychology**  
Cumulative GPA: 3.92/4.00  
**Committee:** Bonnie Klimes-Dougan, Ph.D. (advisor), Kathryn Cullen, M.D., Monica Luciana, Ph.D., and Shmuel Lissek, Ph.D.  
**Dissertation Title:** Interplay among Neural, Autonomic, and Neuroendocrine Systems in Rumination
- March 2020      **University of Minnesota**, Twin Cities, MN  
**Masters of Arts in Psychology**  
**Committee:** Bonnie Klimes-Dougan, Ph.D. (advisor), Kathryn Cullen, M.D., and Shmuel Lissek, Ph.D.  
**Thesis Title:** Interplay Between Frontolimbic Resting State Connectivity and Hypothalamic-Pituitary-Adrenal Axis Functioning in Adolescents with and without Depression
- June 2014      **Northwestern University**, Evanston, IL  
**B.A.** Double major in Psychology and Art Theory & Practice; Summa cum laude  
Cumulative GPA: 3.92/4.00

## RESEARCH EXPERIENCE

- 2022 – Present      **Laboratory for Translational & Affective Neuroscience**  
**McLean Hospital / Harvard Medical School**, Department of Psychiatry, Belmont, MA  
Research Mentors: Diego Pizzagalli, PhD  
*Postdoctoral Fellow*  
Project Areas: neuroimaging, depression, neurofeedback
- 2016 – 2022      **Research on Adolescent Depression Laboratory,**  
**University of Minnesota**, Twin Cities, MN  
Research Mentors: Bonnie Klimes-Dougan, Ph.D., Kathryn Cullen, M.D., and Shmuel Lissek, Ph.D.  
*Graduate Research Assistant*  
Project Areas: neuroimaging, adolescent depression, neuromodulation
- 2014 – 2016      **Boston Attention and Learning Laboratory,**  
**VA Boston Healthcare System**, Boston, MA  
Principal Investigators: Michael Esterman, Ph.D. and Joseph DeGutis, Ph.D.  
*Research Assistant*, 40 hours per week  
Project Areas: sustained attention, neuromodulation, cognitive remediation
- 2013 – 2014      **Affective and Clinical Neuroscience Laboratory**  
**Northwestern University**, Evanston, IL  
Principal Investigator: Robin Nusslock, Ph.D.  
*Research Assistant*, 10 hours per week (school year); 40 hours per week (summer)  
Project Areas: EEG, threat- and reward-related brain function, depression, bipolar disorder, and anxiety

## PUBLICATIONS

1. **Thai, M.**, Hendrickson, T., Klimes-Dougan, B., Fiecas, M., Mueller, B., & Cullen, K. (In preparation). Resting-state entropy in adolescents with mood disorders.

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2. Wagner, A. C., Ozturk, S., **Thai, M.**, Westervelt, A., Reigstad, K., Cullen, K. R., Gunlicks-Stoessel, M., & Klimes-Dougan, B. (under review). Executive functioning as a predictor of response to interpersonal Psychotherapy in adolescents with depression: A pilot study.
3. Bendezú, J.J., **Thai, M.**, Wiglesworth, A., Cullen, K.R., & Klimes-Dougan, B. (2022). Adolescent stress experience–expression–physiology correspondence: Links to depression, self-injurious thoughts and behaviors, and frontolimbic neural circuitry. *Journal of Affective Disorders*.
4. **Thai, M.**, Cullen, K., & Klimes-Dougan, B. (2022). Neuroanatomy and Neural Networks in Depression. In Choi, J. & McClintock, S. (Eds.), *Handbook of Neurocognitive Functioning in Depression: Scientific Foundations and Clinical Practice*. Guilford Press, Inc.
5. Bendezú, J. J., Howland, M., **Thai, M.**, Marceau, K., Shirtcliff, E. A., Hastings, P. D., ... & Klimes-Dougan, B. (2021). Adolescent cortisol and DHEA responses to stress as prospective predictors of emotional and behavioral difficulties: A person-centered approach. *Psychoneuroendocrinology*, *132*, 105365.
6. Başgöze, Z., Mirza, S. A., Silamongkol, T., Hill, D., Falke, C., **Thai, M.**, ... & Cullen, K. R. (2021). Multimodal assessment of sustained threat in adolescents with nonsuicidal self-injury. *Development and Psychopathology*, 1-19.
7. **Thai, M.**, Klimes-Dougan, B., & Cullen, K. (2021). The Ups and Downs of Mind-Wandering in Adolescents. *Journal of the American Academy of Child and Adolescent Psychiatry*, *60*(3), 340-342.
8. **Thai, M.**, Schreiner, M. W., Mueller, B. A., Cullen, K. R., & Klimes-Dougan, B. (2021). Coordination between frontolimbic resting state connectivity and hypothalamic–pituitary–adrenal axis functioning in adolescents with and without depression. *Psychoneuroendocrinology*, *125*, 105123.
9. **Thai, M.**, Başgöze, Z., Klimes-Dougan, B., Mueller, B. A., Fiecas, M., Lim, K. O., ... & Cullen, K. R. (2020). Neural and Behavioral Correlates of Clinical Improvement to Ketamine in Adolescents With Treatment Resistant Depression. *Frontiers in psychiatry*, *11*, 820.
10. Farmer, A.D., Strzelczyk, A., Finisguerra, A., Gourine, A.V., Gharabaghi, A., Hasan, A., ... **Thai, M.**, ... Koenig, J. (2020). International consensus based review and recommendations for minimum reporting standards in research on transcutaneous vagus nerve stimulation (version 2020). *Frontiers in Human Neuroscience*, *14*, 409.
11. Koenig, J., Abler, B., Agartz, I., Åkerstedt, T., Andreassen, O.A., Anthony, M., Bertsch, K., Brown, R.C., Brunner, R., Carnevali, L., Critchley, H., Cullen, K.R., de Geus, E.J.C., Dziobek, I., Fischer, H., Flor, H., Gaebler, M., Gianaros, P.J., Giummarra, M.J., ... **Thai, M.**, ... Joo Yoo, H. (2020). Cortical Thickness and Resting State Cardiac Function Across the Lifespan: A Cross-Sectional Pooled Mega Analysis. *Psychophysiology*.
12. Roy, A. V., **Thai, M.**, Klimes-Dougan, B., Westlund Schreiner, M., Mueller, B. A., Albott, C. S., ... & Cullen, K. R. (2020). Brain entropy and neurotrophic molecular markers accompanying clinical improvement after ketamine: Preliminary evidence in adolescents with treatment-resistant depression. *Journal of Psychopharmacology*.
13. Klimes-Dougan, B., Chong, L. S., Samikoglu, A., **Thai, M.**, Amatya, P., Cullen, K. R., & Lim, K. O. (2019). Transcendental meditation and hypothalamic-pituitary-adrenal axis functioning: a pilot, randomized controlled trial with young adults. *Stress*, 1-11.
14. Klimes-Dougan, B., Begnel, E., Almy, B., **Thai, M.**, Schreiner, M. W., & Cullen, K. R. (2019). Hypothalamic-pituitary-adrenal axis dysregulation in depressed adolescents with non-suicidal self-injury. *Psychoneuroendocrinology*, *102*, 216-224.
15. Klimes-Dougan, B., Schreiner, M.W., **Thai, M.**, Gunlicks-Stoessel, M., Reigstad, K., & Cullen, K.R. (2018). Neural and neuroendocrine predictors of pharmacological treatment response in adolescents with depression: a preliminary study. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, *81*, 194-202.
16. Chong, L. S., **Thai, M.**, Cullen, K. R., Lim, K. O., & Klimes-Dougan, B. (2017). Cortisol Awakening Response, Internalizing Symptoms, and Life Satisfaction in Emerging Adults. *International Journal of Molecular Sciences*, *18*(12), 2501.
17. Esterman, M., **Thai, M.**, Okabe, H., DeGutis, J., Saad, E., Laganieri, S. E., & Halko, M. A. (2017). Network-targeted cerebellar transcranial magnetic stimulation improves attentional control. *NeuroImage*, *156*, 190-198.

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18. DeGutis, J., Chiu, C., **Thai, M.**, Esterman, M., Milberg, W., & McGlinchey, R. (2016). Trauma Sequelae are Uniquely Associated with Components of Self-Reported Sleep Dysfunction in OEF/OIF/OND Veterans. *Behavioral sleep medicine*, 1-26.
19. Esterman, M., Liu, G., Okabe, H., Reagan, A., **Thai, M.**, & DeGutis, J. (2015). Frontal eye field involvement in sustaining visual attention: Evidence from transcranial magnetic stimulation. *NeuroImage*, 111, 542-548.
20. Rosenfeld, J. P., Ward, A., **Thai, M.**, & Labkovsky, E. (2015). Superiority of pictorial versus verbal presentation and initial exposure in the P300-based, Complex Trial Protocol for concealed memory detection. *Applied psychophysiology and biofeedback*, 40(2), 61-73.

### SELECT ABSTRACTS/PRESENTATIONS

1. **Thai, M.**, Tavares, N., Lieske, A., Chen, M., Roediger, DJ., Mueller, BA., Lim, KO., Klimes-Dougan, B. & Cullen, K.R. (2022, April). *Neural and Neuroendocrine Functioning of Youth with Depression before and after Mindful Breathing Training Paired with Transcranial Direct Current Stimulation*. Poster presented at the 77<sup>th</sup> annual meeting of SOBP, New Orleans, LA.
2. Başgöze, Z., Demers, L., **Thai, M.**, Falke, C., Mueller, B.A. Fiecas, M., Thomas, K.M., Klimes-Dougan, B., Cullen, K. R. (2022, April). *A Multi-Level Examination of Cognitive Control in Adolescents with Non-suicidal Self-Injury*. Poster presented at the 77<sup>th</sup> annual meeting of SOBP, New Orleans, LA.
3. Lieske, A., Tavares, N., Patel, S., Kaur, H., **Thai, M.**, Chen, M., Lim, K.O., Klimes-Dougan, B., & Cullen, K.R. (2021, October). *Go/No-Go P300 Amplitude of Youth with Depression before and after Mindful Breathing Training paired with Transcranial Direct Current Stimulation*. Poster virtually presented at the 2021 annual meeting of the Society for Psychophysiological Research.
4. Lieske, A., Patel, S., Tavares, N., Thai, M., Chen, M., Lim, K.O., Klimes-Dougan, B., & Cullen, K.R. (2021, April) *Frontal Alpha Asymmetry as a Predictor of Intervention Efficacy for Mindful Breathing paired with Transcranial Direct Current Stimulation in Young Adults with Depression*. Poster virtually presented at the 2021 annual meeting of the MN Neuromodulation Symposium.
5. **Thai, M.**, Cullen, K.R., Klimes-Dougan, B., & Koenig, J. (2020, October). *Heart Rate Variability Change in Response to Ketamine in Adolescents with Treatment-Resistant Depression and Associations with Neural Entropy*. Poster virtually presented at the 2020 annual meeting of the Society for Psychophysiological Research.
6. **Thai, M.**, Başgöze, Z., Klimes-Dougan, B., Mueller, B.A., Fiecas, M., Lim, K.O., Albott, C.S., & Cullen, K.R. (April 2020; Canceled due to COVID-19). *Neural and Behavioral Correlates of Clinical Improvement to Ketamine in Adolescents With Treatment Resistant Depression*. Poster accepted to be presented at the 75<sup>th</sup> annual meeting of SOBP, New York, NY.
7. **Thai, M.**, Corkrum, M., Horek, N., Albott, C.S., Klimes-Dougan, B., Lim, K.O., & Cullen, K.R. (April 2020; Canceled due to COVID-19). *Better Baseline Neurocognitive Performance is Associated with Greater Clinical Improvement to Deep Transcranial Magnetic Stimulation in Adolescents with Treatment Resistant Depression*. Poster accepted to be presented at the 75<sup>th</sup> annual meeting of SOBP, New York, NY.
8. **Thai, M.**, Lu, J., Begnel, E., Mahamed, I., Wiglesworth, A., Horek, N., Andreatza, A., Cullen, K., & Klimes-Dougan, B (March 2020; Canceled due to COVID-19). *Multilevel Evaluation of Stress Activation and Regulation in Mood Disorders*. Paper symposium accepted to be presented at the 2020 annual meeting of the Society for Research on Adolescence, San Diego, CA.
9. Cullen, K., **Thai, M.**, Lim, K., & Klimes-Dougan, B. (2019). Targeting rumination with combined mindful breathing and tDCS in adolescents with suicidal thoughts. *Brain Stimulation: Basic, Translational, and Clinical Research in Neuromodulation*, 12(2), 583.
10. **Thai, M.**, Cullen, K., & Klimes-Dougan, B. (2019, June). *Interplay between dmPFC and vmPFC Resting State Connectivity with the Amygdala and Hypothalamic-pituitary-adrenal Axis Functioning in Adolescents with and without Self Injury*. Poster presented at the 2019 annual meeting of the Organization for Human Brain Mapping, Rome, Italy.

### AWARDS & HONORS

2021

Norman & Edith Garmezy Graduate Fellowship

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| 2021                   | UMN Department of Psychology Research Award   |
| 2020                   | American Psychological Foundation/Council of Graduate Departments of Psychology (APF/COGDOP) 2020 Clarence J. Rosecrans Scholarship |
| 2020                   | UMN Lou Ann Nylen Research Award  |
| 2020                   | UMN Department of Psychology Travel Award   |
| 2020                   | UMN David T. Lykken Memorial Graduate Fellowship Travel Award   |
| 2017-2018, 2020-2021   | UMN MnDRIVE Graduate Fellowship in Neuromodulation  |
| 2020                   | UMN Doctoral Dissertation Fellowship (Award declined)   |
| 2019                   | Society for Psychophysiological Research (SPR) Research Training Fellowship   |
| 2018                   | UMN College of Liberal Arts Brain Imaging Grant (Big)   |
| 2017, 2018, 2020, 2021 | UMN Beverly & Richard Fink Summer Research Fellowship   |
| 2017                   | UMN Tri-Psych Equity, Diversity, and Inclusion Student Fund   |
| 2017                   | Honorable Mention, National Science Foundation (NSF) Graduate Research Fellowship Program   |
| 2016                   | UMN College of Liberal Arts DOVE Research and Creativity Award  |
| 2016 – 2017            | UMN Diversity of Views and Experiences (DOVE) Fellowship  |

### TEACHING EXPERIENCE

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|-----------|--|
| 2019—2020 | <b>Teaching Assistant</b> , Capstone in Psychology, University of Minnesota<br><i>Fall Semester</i><br>Overall Instructor Rating: 5.89/6.00<br>Overall Course Rating: 5.26/6.00<br><i>Spring Semester</i><br>Overall Instructor Rating: 5.50/6.00<br>Overall Course Rating: 5.33/6.00  |
| 2018—2019 | <b>Teaching Assistant</b> (Graduate Level), University of Minnesota<br><i>Fall Semester</i> : Intellectual and Neuropsychological Assessment<br>Overall Instructor Rating: 5.80/6.00<br>Overall Course Rating: 5.90/6.00<br><i>Spring Semester</i> : Personality and Psychopathology Assessment<br>Ratings unavailable (student evaluations not completed) |

### MENTORSHIP

#### *Mentored Research Projects*

**Melody Vang** (07/2021), St. Olaf Undergraduate Student, 2021-2022 MnDRIVE/Louis Stokes North Star STEM Alliance Presentation: *Can brain activation predict which individuals with depression may respond to Mindful Breathing with versus without tDCS?*

**Shalini Patel** (03/2020), University of Minnesota Undergraduate Student, Undergraduate Research Opportunities Program (UROP) Presentation: *Investigating how Emotion Regulation, Affect, and Current Depressive Symptoms Predict Adherence to Mindful Breathing Coupled with Transcranial Direct Current Stimulation.*

**Jinci Lu** (05/2020), Macalester College Undergraduate Student, Department of Neuroscience Capstone Project: *Uncinate Fasciculus White Matter Integrity and Cortisol Reactivity to Psychosocial Stress in Adolescents with and without Mood Disorders*

**Jinci Lu** (05/2019), Macalester College Undergraduate Student, Association of Psychological Science (APS) Poster Presentation: *Lack of Coordination between Frontolimbic Connectivity and Cortisol Awakening in Adolescents with Mood Disorders and Non-Suicidal Self-Injury*

**Rabab Ibrahim** (05/2019), University of Minnesota Undergraduate Student, Undergraduate Research Opportunities Program (UROP) Presentation: *Reduced Fronto-Limbic Connectivity*

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### *Associated Attentional Abnormalities and Cognitive Impairments in Adolescents with Mood Disorders*

#### *Research Training*

Trained 10 undergraduates, research coordinators, and graduate students to collect EEG data, to run behavioral paradigms, collect saliva samples, to administer transcranial direct current stimulation, to administer transcranial magnetic stimulation, to administer neuropsychological assessments, to administer clinical interviews, and to run basic statistics

### **CLINICAL EXPERIENCE**

- 2021 – 2022      **Hennepin Healthcare Clinical Psychology Internship**, Minneapolis, MN  
*Supervisor:* Karin Fisher, Ph.D. and Devin Hanson, Ph.D.  
Adult and adolescent cognitive behavioral outpatient therapy, inpatient therapy, outpatient DBT group, bariatric surgery evaluations, and medical consults
- 2016 – 2021      **University of Minnesota, Department of Psychiatry**, Minneapolis, MN  
*Supervisor:* Bonnie Klimes-Dougan, Ph.D.  
Adolescent diagnostic interviewing
- 2018 – 2020      **Child & Adolescent Mood Disorders Clinic**, Minneapolis, MN  
*Supervisor:* Meredith Gunlicks-Stoessel, Ph.D.  
Adolescent cognitive behavioral therapy and interpersonal psychotherapy
- 2018 – 2020      **Behavioral Health Clinic for Families**, Minneapolis, MN  
*Supervisor:* Emily Pisetsky, Ph.D. and Alexandra Zagoloff  
Adult and adolescent cognitive behavioral therapy
- 2017 – 2018      **University of Minnesota Neuropsychology Laboratory**, Minneapolis, MN  
*Supervisors:* Erin Holker, Ph.D., Eric Waldron, Ph.D., James Porter, Ph.D.  
Adult neuropsychological assessment

### **PROFESSIONAL ORGANIZATIONS, OUTREACH AND LEADERSHIP ROLES**

- 2016 – 2020      **University of Minnesota Department of Psychology Diversity Weekend**, Presenter
- 2018 – present   **Center for Neurobehavioral Development (CNBD)**, Student Member
- 2018 – 2019      **Association for Behavioral and Cognitive Therapies (ABCT)**, Student Member
- 2015, 2017       **Association of Psychological Science (APS)**, Student Member
- 2016 – 2017      **Society for a Science of Clinical Psychology**, Student Member
- 2017 – 2018      **Anxiety and Depression Association of America (ADAA)**, Student Member
- 2017              **University of Minnesota Neuromodulation Challenge Brain Bee**, Student Committee Member
- 2017              **Minnesota State Fair University of Minnesota Neuromodulation Table**, Presenter
- 2016 – 2017      **International Neuropsychological Society (INS)**, Student Member
- 2016              **University of Minnesota Brain Awareness Week**, Presenter

### **SKILLS/TRAINING**

- TMS/tDCS: proficient in TMS/tDCS experimental protocols, proficient at Brainsight neuronavigation
- Completed Harvard Medical School *Introduction to Transcranial Direct Current Stimulation (tDCS) in Neuropsychiatric Research* course (with Berenson-Allen Center for Noninvasive Brain Stimulation)
- MRI: trained in unpacking, preprocessing, and analyzing MRI data using AFNI and FSL
  - Completed Oxford University's FSL Course
- E-prime: trained in creating behavioral task paradigms for EEG and MRI data collection
- Diagnostic assessments: proficient in conducting semi-structured (KSADS-PL) and structured (MINI) diagnostic interviews
- Statistics: proficient in data analysis using SPSS and R statistical programming
- Proficient in administering neuropsychological assessments of executive function, attention, and memory

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### **EDITORIAL EXPERIENCE**

**Ad hoc reviewer:** Journal of Abnormal Child Psychology, Journal of Experimental Child Psychology, *PLOS ONE*

**Ad hoc reviewer (supervised by advisor):** Proceedings of the National Academy of Sciences, Environmental Research and Public Health