

John Emmanuel Kiat

CURRICULUM VITAE

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University of California-Davis
Center for Mind & Brain
Davis, CA, 95618

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Professional Experience

2024-present Assistant Project Scientist, University of California, Davis (UC-Davis)
2018-2024 Postdoctoral Scholar, UC-Davis
PI: Steven, J. Luck
2014-2018 Graduate Research Fellow: University of Nebraska-Lincoln (UNL)
PIs: Robert, F. Belli, Jacob, E. Cheadle
2011-2013 Teaching Assistant & Instructor: UNL
2008-2011 Teaching & Research Assistant: HUC
2006-2007 Research Intern: CAREERsense Psychometric Testing Center

Education

2018 Ph.D. Psychology: UNL
Specializations: *Neuroscience & Behavior, Social Cognition*
Additional concentration: *Quantitative Methods*
2013 M.A. Psychology: UNL
2008 B.A. Psychology (1st Class): HELP University, Malaysia (HUC)

Research Awards & Honors

2018 Outstanding Graduate Researcher Award (*UNL : awarded for excellence in graduate research across all departments*)
2018 Best Social Science Research Award (*UNL : awarded to the top social science poster at the University's cross-department research fair*)
2017 Outstanding Graduate Researcher Award (*Honorable Mention*)
2016 Best Social Science Poster Award (*UNL : awarded to the top social science poster at the University's cross-department research fair*)
2008 University of Queensland Outstanding Psychology Research Award (*awarded to the top psychology research project at the HUC annual colloquium*)
2008 Datuk Paduka Dr. Hajjah Saleha Award (*HUC : awarded to the University's top ranked student in the graduating class of 2008*)
2007 University of Leeds Achievement Award (*HUC : awarded to the top 3rd year student*)
2007 Colloquium Award: Best Research Presentation (*HUC : awarded to the top research Presentation at the HUC annual colloquium*)
2006 Middlesex University Award (*HUC : awarded to the top 2nd year student*)
2006 HUC Colloquium Award: Best Research Presentation
2005 Middlesex University Award (*HUC : awarded to the top 1st year student*)

Grants & Fellowships

2017-2018	UNL Dean's Fellowship (\$5,000)
2016-2017	UNL Maude Hammond Fling Fellowship (\$20,000 + tuition)
2015	CB3 Seed Grant: <i>A High-Density ERP Study of the Misinformation Effect</i> . PI: John E. Kiat. Co-PI: Robert F. Belli (\$6,930)
2011-2014	UNL Othmer Fellowship (\$24,000 + tuition)
2011-2013	UNL Warden Travel Funding (\$2,000 total)
2008	HUC Full Graduate Fellowship (Declined)
2005	HUC Full Merit Scholarship (\$5,000 total)

Peer-reviewed Journal Articles

1. **Kiat, J. E.**, & Luck, S. J. (2026). A population vector model of visual working memory for real-world scenes. *Journal of Experimental Psychology: General*, 155(5), 1257-1281. <https://doi.org/10.1037/xge0001921>
2. Bansal, S., **Kiat, J.E.**, Robinson, B., Dutterer, J., Luck, S. J., & Gold, J. (2026). A confirmatory factor analysis of hyperfocusing and inhibitory control as separable cognitive domains in schizophrenia. *Journal of Psychopathology and Clinical Science*. <https://doi.org/10.1037/abn0001116>
3. Hunter, B. K., **Kiat, J. E.**, Luck, S. J., & Oakes, L.M. (2025). Relating Infant Fixations to Adult Cortical Activation Patterns Using the Natural Scenes Dataset. *Developmental Science* 28, no. 6: e70076. <https://doi.org/10.1111/desc.70076>
4. Bahle, B., Winsler, K., **Kiat, J.E.**, & Luck, S.J. (2025) Combined conceptual and perceptual control of visual attention in search for real-world objects. *Attention Perception & Psychophysics*. <https://doi.org/10.3758/s13414-025-03116-4>
5. Talcott, T.N., **Kiat, J.E.**, Luck, S.J., Gaspelin, N. (2025). Is covert attention necessary for programming accurate saccades? Evidence from saccade-locked event-related potentials. . *Attention Perception & Psychophysics*, 87, 172–190. <https://doi.org/10.3758/s13414-023-02775-5>
6. Carrasco, C.D., Simmons, A.M., **Kiat, J.E.** & Luck, S.J. (2025). Enhanced Working Memory Representations for Rare Events. *Psychophysiology*, 62: e70038. <https://doi.org/10.1111/psyp.70038>
7. Hunter, B.K., **Kiat, J.E.**, Klotz, S.M., Nelson, C.M., Luck, S.J., & Oakes, L.M. (2025). The predictive ability of GBVS feature channels on infants' fixations of natural scenes. *Visual Cognition*, 1–19. <https://doi.org/10.1080/13506285.2025.2468690>
8. Luck, S.J., **Kiat, J.E.** (2024). Visual working memory for natural scenes: challenges and opportunities. *Cognitive Processing*, 25 (Supplement 1), 73–78. <https://doi.org/10.1007/s10339-024-01213-0>
9. Zhang, G., Garrett, D. R., Simmons, A. M., **Kiat, J. E.**, & Luck, S. J. (2024). Evaluating the effectiveness of artifact correction and rejection in event-related potential research. *Psychophysiology*, 00, e14511. <https://doi.org/10.1111/psyp.14511>
10. **Kiat, J.E.**, Hayes, T.R., Henderson, J.M., Luck, S.J. (2022). Rapid extraction of the spatial distribution of physical saliency and semantic informativeness from natural scenes in the human brain. *Journal of Neuroscience*, 97-108. doi: [10.1523/jneurosci.0602-21.2021](https://doi.org/10.1523/jneurosci.0602-21.2021)

11. **Kiat, J.E.**, Luck, S.J., Beckner, A.G., Hayes, T.R., Pomaranski, K.I., Henderson, J.M., Oakes, L.M. (2022). Linking Patterns of Infant Eye Movements to a Neural Network Model of the Ventral Stream Using Representational Similarity Analysis. *Developmental Science*. doi: [10.1111/desc.13155](https://doi.org/10.1111/desc.13155)
12. He, T., Boudewyn, M.A., **Kiat, J.E.**, Sagae, K., Luck, S.J. (2021). Neural correlates of word representation vectors in natural language processing models: Evidence from representational similarity analysis of event-related brain potentials. *Psychophysiology*, 59(3). doi : [10.1111/psyp.13976](https://doi.org/10.1111/psyp.13976)
13. Britta, H., Robinson, B.M., **Kiat, J.E.** , Geng, J., Bansal, S., Luck, S.J., Gold, J.M. (2021). Impaired filtering and hyperfocusing: neural evidence for distinct selective attention abnormalities in people with schizophrenia. *Cerebral Cortex*. doi: <https://doi.org/10.1093/cercor/bhab327>
14. Erikson, M.A., Hahn, B., **Kiat, J.E.**, Allende, L.M., Luck, S.J., Gold, J.M. (2021). Neural basis of the visual working memory deficit in schizophrenia: merging evidence from fMRI and EEG. *Schizophrenia Research*, 236. 61-68. doi : [10.1093/schbul/sbaa029.610](https://doi.org/10.1093/schbul/sbaa029.610)
15. Ganesan, A., Kashima, Y., **Kiat, J.E.**, & Dar-Nimrod, I. (2019) Transmission of disorder and etiological information: Effects on health knowledge recollections and health-related cognition. *PLOS One*, 14(6). doi: [10.1371/journal.pone.0218703](https://doi.org/10.1371/journal.pone.0218703)
16. **Kiat, J.E.**, Long, D., Belli, R.F. (2018). Attentional Responses on the Auditory Oddball predict False Memory Susceptibility. *Cognitive, Affective, & Behavioral Neuroscience*, 18(5), 1000-1014. doi: [10.3758/s13415-018-0618-0](https://doi.org/10.3758/s13415-018-0618-0)
17. **Kiat, J.E.**, Cheadle, J.E. (2018). Tick-Tock Goes the Croc: A High-Density EEG Investigation of Risk-Taking Reactivity and Binge-Drinking Susceptibility. *Social Cognitive & Affective Neuroscience*, 13(6), 656-663. doi: [10.1093/scan/nsy038](https://doi.org/10.1093/scan/nsy038)
18. **Kiat, J.E.**, Belli, R.F. (2018). The Role of Individual Differences in Visual/Verbal Information Processing Preferences in Visual/Verbal Source Monitoring. *Journal of Cognitive Psychology*, 30(7), 701-709. doi: [10.1080/20445911.2018.1509865](https://doi.org/10.1080/20445911.2018.1509865)
19. **Kiat, J.E.** (2018). Assessing cross-modal target transition effects with a visual-auditory oddball. *International Journal of Psychophysiology*, 129, 58-66. doi: [10.1016/j.ijpsycho.2018.04.010](https://doi.org/10.1016/j.ijpsycho.2018.04.010)
20. **Kiat, J.E.**, Dodd, M.D., Belli, R.F. Cheadle, J.E. (2018). The Signature of Undetected Change: An Exploratory Electrotomographic Investigation of Gradual Change Blindness. *Journal of Neurophysiology*, 5, 1629-35. doi:[10.1152/jn.00722.2017](https://doi.org/10.1152/jn.00722.2017)
21. **Kiat, J. E.**, Ong, A. R., & Ganesan, A. (2018). The influence of Distractor Strength & Placement on MCQ Responding. *Educational Psychology*, 38(3), 368-80. doi: [10.1080/01443410.2017.1349877](https://doi.org/10.1080/01443410.2017.1349877)
22. **Kiat, J.E.**, Cheadle, J.E. Goosby, B.J. (2018). The Impact of Social Exclusion on Anticipatory Attentional Processes. *International Journal of Psychophysiology*, 123, 48-57. doi: [10.1016/j.ijpsycho.2017.11.010](https://doi.org/10.1016/j.ijpsycho.2017.11.010)
23. Davidson, C.A., **Kiat, J.E.**, Tarasenko, M., Ritchie, A.J.R., Molfese, D., Spaulding, D. (2018). Electrophysiological correlates of social cognition in subclinical schizotypy. *Personality and Mental Health*, 12(3), 179-191. doi: [10.1002/pmh.1413](https://doi.org/10.1002/pmh.1413)
24. **Kiat, J.E.**, Belli, R.F. (2017). An Exploratory High-Density EEG Investigation of the Misinformation Effect: Attentional and Recollective Differences between True and False Perceptual Memories. *Neurobiology of Learning & Memory*, 141, 199-208. doi: [10.1016/j.nlm.2017.04.007](https://doi.org/10.1016/j.nlm.2017.04.007)
25. **Kiat, J.E.**, Cheadle, J.E. (2017). The Impact of Individuation on the Bases of Human Empathic Responding. *Neuroimage*, 155, 312-321. doi: [10.1016/j.neuroimage.2017.05.006](https://doi.org/10.1016/j.neuroimage.2017.05.006)

26. **Kiat, J.E.**, Straley, E., Cheadle, J. E. (2017). Why Won't They Sit with Me? An Exploratory Investigation of Stereotyped Cues, Social Exclusion, and the P3b. *Social Neuroscience*, 12(5), 612-25. doi: [10.1080/17470919.2016.1223167](https://doi.org/10.1080/17470919.2016.1223167)
27. Schutte, A., Torquati, J., **Kiat, J.E.** (2017). The influence of Indoor and Natural Environments on Children's Executive Function and Event-Related Potentials. *Children, Youth & Environments*, 27(2), 70-92. doi: [10.7721/chilyoutenvi.27.2.0070](https://doi.org/10.7721/chilyoutenvi.27.2.0070)
28. **Kiat, J.E.**, Straley, E., Cheadle, J. E. (2016). Escalating Risk and the Moderating Effect of Resistance to Peer Influence on the P200 and Feedback-Related Negativity. *Social Cognitive & Affective Neuroscience*, 11(3): 377-86. doi: [10.1093/scan/nsv121](https://doi.org/10.1093/scan/nsv121)
29. Liau, A.K., **Kiat, J.E.**, Nie, Y. (2014). Investigating the Pedagogical Approaches Related to Changes in Attitudes Toward Statistics in a Quantitative Methods Course for Psychology Undergraduate Students. *The AsiaPacific Education Researcher*, 24(2), 319-27. doi: [10.1007/s40299-014-0182-5](https://doi.org/10.1007/s40299-014-0182-5)
30. Lukman, H., **Kiat, J.E.**, Ganesan, A., Chua, W.L., Khor, K.L., Choong, Y.F. (2010). Strabismus-related prejudice in 5-6-year-old children. *British Journal of Ophthalmology*, 94, 1348-51. doi: [10.1136/bjo.2009.173526](https://doi.org/10.1136/bjo.2009.173526)
31. Lukman, H., **Kiat, J.E.**, Ganesan, A., Chua, W.L., Khor, K.L., Choong, Y.F. (2010). Negative Social Reaction to Strabismus in School Children Ages 8-12 years. *Journal of Pediatric Ophthalmology and Strabismus*, 15(3), 238-40. [10.1016/j.jaapos.2011.01.158](https://doi.org/10.1016/j.jaapos.2011.01.158)

Conference Talks

1. Luck, S.J., **Kiat, J.E.**, (2025). A Population Vector Model of Visual Working Memory for Naturalistic Scenes. Presented at the Psychonomic Meeting. Denver, CO.
2. **Kiat, J.E.**, Belli, R.F. (2015). Neural Components of Source Monitoring Signify Individual Differences in Misinformation Susceptibility. Presented at the Psychonomic Meeting. Chicago, IL.
3. **Kiat, J. E.**, Ong, A. R., & Ganesan, A. (2012). The Influence of MCQ Distractor Placement on Responding. Presented at SEAP. Kinabalu, Malaysia.
4. **Kiat, J.E.**, Ganesan A., Ming, K.P.T., Leonard, L.A. (2010). Factors Predictive of Improvement in Academic Performance during the High School-College Transition. Presented at the 3rd ASEAN Union of Psychological Societies.
5. **Kiat, J.E.** (2009). Scientific Creativity: The Role of Bisociation and Abstraction. Presented at SEAP 2009. Kota Kinabalu, Malaysia.
6. **Kiat, J.E.** (2008). Relative Efficiency of Visual and Verbal Encoding Strategies in Eyewitness Recall. Presented at the HUC Colloquium. KL, Malaysia.
7. **Kiat, J.E.** Ho, W.Z. Aidan J. (2006). Proximity Choice Changes from Shared Emotional Experiences. Presented at the HUC Colloquium. Kuala Lumpur, Malaysia.

Book Chapters

1. Straley, E., Cheadle, J.E., Zosky, J.E., **Kiat, J.E.** (2016). "Stressors and Health among LGBTQ+ Individuals in a Midwestern College Community." *Reducing Health Disparities: Research updates from the field* (Vol. 2).

Conference Posters

1. **Kiat, J.E.**, Luck, S.J. (2025). Individual Differences in Psychological Distress Boost Decodability of Visual Information. Presented at the 2025 VSS Meeting, Denver, CO.
2. Luck, S.J., **Kiat, J.E.**, (2025). A Population Vector Model of Visual Working Memory for Naturalistic Scenes. Presented at the 2025 VSS Meeting, St. Pete Beach, FL.
3. **Kiat, J.E.**, Luck, S.J. (2025). Effects of Covert Attention on the Perceptual Encoding of Naturalistic Scenes. Presented at the 2025 VSS Meeting, St. Pete Beach, FL.
4. **Kiat, J.E.**, Bahle, B., Luck, S.J. (2022). Search templates for real-world objects in natural scenes. Presented at the 2022 VSS Meeting, St. Pete Beach, FL.
5. **Kiat, J.E.**, Luck, S.J. (2020). Assessing the time course of affective processing: Representational similarity analysis of ERP responses to emotional scenes. Presented at the 2020 Psychonomic Meeting. Online Conference.
6. **Kiat, J.E.**, Hayes, T.R., Henderson, J.M., Luck, S.J. (2020). Assessing the time course of saliency and meaning: Representational similarity analysis of ERP responses to natural scenes. Presented at the 2020 VSS Meeting. Online Conference.
7. **Kiat, J.E.**, Luck, S.J. (2019). Tracking the Time Course of Saliency- and Meaning-Based Scene Processing Using Representational Similarity Analysis. Presented at the 2019 Psychonomic Meeting. Montreal, Canada.
8. **Kiat, J.E.**, Cheadle, J. E. (2017). The Impact of Individuation on the Bases of Human Empathic Responding. Presented at the 2017 Society for Neuroscience Meeting. Washington, DC.
9. **Kiat, J.E.**, Straley, E., & Cheadle, J. E. (2016). Escalating risk and the moderating effect of resistance to peer influence on the P200 and feedback-related negativity. Presented at the 64th Annual Nebraska Symposium on Motivation. Lincoln, NE.
8. Schutte, A., Torquati, J., **Kiat, J.E.** (2016). The influence of indoor and natural environments on children's executive function and event-related potentials. Paper presented at the Jean Piaget Society Meeting. Chicago, IL.
10. **Kiat, J.E.**, Belli, R.F. (2015). A High-Density EEG investigation of the Misinformation Effect: Differentiating between True and False Memories. Presented at the 2015 Psychonomic Meeting, Chicago. IL.
11. **Kiat, J.E.**, Belli, R.F. (2015). Attentional and Recollective Differences between True and False Perceptual Memories. Presented at the 63rd Annual Nebraska Symposium on Motivation. Lincoln, NE.
12. Davidson, C.A., **Kiat, J.E.**, Tarasenok, M., Molfese, D. Spaulding, W.D. (2014). EEG correlates of emotional face perception related to neurocognition, social cognition, schizotypy, and social functioning in young adults. Presented at the 62nd Annual Nebraska Symposium. Lincoln, NE.
13. **Kiat, J.E.**, Belli, R.F. (2014). Event Representation in the Misinformation Paradigm. Presented at the 2014 Psychonomic Society Meeting. Long Beach, CA.
14. **Kiat, J.E.**, Belli, R.F. (2013). ERP Correlates of Individual Differences in Source Monitoring. Presented at the 2013 Psychonomic Meeting. Toronto, Canada.
15. **Kiat, J.E.**, Belli, R.F. (2013). Disentangling the CEQ-DRM Link: The Moderating Role of Source Monitoring. Presented at SARMAC X. Rotterdam, Netherlands.

16. **Kiat, J. E.**, Ganesan, A., & Ong, A. R. (2013). The Effects of Distracter Strength & Student Ability on Test Performance. Presented at the 2013 Midwestern Psychological Association Meeting, Chicago, IL.
17. **Kiat, J. E.**, Ganesan, A., & Ong, A. R. (2012). Moderating Factors in the Influence of First Estimate Accuracy on Averaged Reestimation Accuracy. Presented at the 2012 Southeast Asia Psychology Conference (SEAP). Kinabalu, Malaysia.
18. Lukman, H., **Kiat, J.E.**, Ganesan, A., Chua, W.L., Khor, K.L., Choong, Y.F. (2009). Social Alienation in Young Children with Strabismus. Presented at the XXVII ESCRS Congress. Barcelona, Spain.
19. **Kiat, J.E.**, Qinyuen, W., Jeevagan, J.J.C., Suan, N.B. (2010). Effects of Caffeine on Divergent Thinking. Presented at the 2010 World Conference on Psychology, Counseling and Guidance (WCPCG). Antalya, Turkey.
20. **Kiat, J.E.**, Xin, L.J., Qinyuen, W. (2010). Effects of Caffeine on Risk-Taking Behavior. Presented at the 2010 WCPCG. Antalya, Turkey.
21. **Kiat, J.E.** (2009). The Relative Efficiency of Visual and Verbal Encoding Strategies in Eyewitness Recall. Presented at SEAP 2009. Kota Kinabalu, Malaysia.
22. **Kiat, J.E.** (2007). Digit Encoding under Stress. Presented at the 2007 HUC Psychology Colloquium. Kuala Lumpur, Malaysia.

Campus & Department Talks

1. Predicting infant gaze patterns during video viewing using spatiotemporal salience models (2026). UC-Davis, Center for Mind & Brain (CMB) Seminar.
2. Mapping the Time-course of Priority maps in the Human Brain and Convolutional Neural Networks (2021). UC-Davis, Center for Mind & Brain (CMB) Seminar.
3. Linking Infant Gaze Patterns to CNN Models (2020). UC-Davis, Center for Mind & Brain Seminar.
4. Tracking the Time Course of Saliency and Meaning-Based Scene Processing (2019). UC-Davis, Center for Mind & Brain Seminar.
5. The Cost of Maintaining a Single Item in Working Memory (2019). UC-Davis, Center for Mind & Brain Seminar.
6. Isolating the P300 Slow-Wave (2018). UC-Davis, Center for Mind & Brain Seminar.
7. Stage Dynamics of Risk & Social-Affective Processing (2018). UNL, CABiN brown-bag.
8. Attentional Responses on the Auditory Oddball predict False Memory Susceptibility (2017). UNL, CABiN brown-bag.
9. The Role of Visual and Verbal Source Monitoring in the Misinformation Effect (2016). UNL, CABiN brown-bag.
10. A Rose by any Other Name: The Impact of Individuation on the Informational Bases of Human Empathic Responding (2016). UNL, CABiN brown-bag.
11. Escalating Risk and the Moderating Effect of Resistance to Peer Influence on the P200 and Feedback-Related Negativity (2015). UNL, Social-Cognitive brown-bag.
12. A High-Density EEG Investigation of Misinformation Effect: Differentiating between True and False Perceptual Episodic Memories. (2015). UNL, CABiN brown-bag.
13. Investigating the Neural Changes Associated with Escalating Risk: The Moderating Effect of Resistance to Peer Influence (2015). UNL, CABiN brown-bag.
14. Event-Related Potential Correlates of Individual Differences in Source Monitoring (2013). UNL, CABiN brown-bag.

Media Coverage of Research

1. Fumbling Towards Empathy. *Science! With Friends*. July 30, 2020.
2. How does attention impact false memory susceptibility? *Nebraska Today*. August 15, 2018
3. Binge drinkers' respond differently to risky child's play. *Nebraska Today*. June 15, 2018
4. UNL study shows how the brain braces for rejection. *Lincoln Star*. December 18, 2017
5. Study shows how the brain anticipates social exclusion. *Nebraska Today*, December 14, 2017
6. UNL study measures how a person's name impacts empathy. *Lincoln Star*. July 8, 2017.
7. What's in a name? Monikers alter empathy in the brain. *Nebraska Today*, July 1, 2017.
8. Malaysia Divorce Rates Skyrocket. *New Straits Times*, March 6, 2010.

Mentees

2009-2010	Asha Ganesan, Ai Rene Ong, Qinyuen Wong, Bee Suan, Jeevagan JC, Jie Xin Lim
2010-2011	Asha Ganesan, Ai Rene Ong, Qinyeun Wong, Bee Suan, Jeevagan JC, Jie Xin Lim
2011-2012	Joshua Zosky, Katelyn Carstens, Marnee Roundtree, Katie Herrick, Nicole Lopez
2012-2013	Joshua Zosky, Katelyn Carstens, Marnee Roundtree, Katie Herrick, Kelli Krueger, Ryan Kirkpatrick, Ryan Nathan, Trevor Mattox, Margaret Healy, Claudia Schleppenbach, Tara Baker, Jordan Pfeifer
2013-2014	Joshua Zosky, Katelyn Carstens, Marnee Roundtree, Katie Herrick, Ryan Kirkpatrick, Ryan Nathan, Trevor Mattox, Margaret Healy, Claudia Schleppenbach, Danielle Shultz, Derek Preister, Joseph Burr, Kaitlin Kueny, Casey Schwee,
2014-2015	Ryan Kirkpatrick, Ryan Nathan, Trevor Mattox, Margaret Healy, Claudia Schleppenbach Alex O'Donnell, Danielle Shultz, Derek Preister, Kaitlin Kueny, Casey Schwee, Lydia Pflanz, Cassandra Nolasco, Shannon Cooney
2015-2016	Ryan Kirkpatrick, Alex O'Donnell, Danielle Shultz, Derek Preister, Lydia Pflanz, Cassandra Nolasco, Shannon Cooney
2016-2017	Alex O'Donnell, Danielle Shultz, Cassandra Nolasco, Shannon Cooney
2017-2018	Alex O'Donnell, Cassandra Nolasco
2018-2019	Echo Xu, Sarah Darwish, Miguel Castro, Mazze Whiteley
2019-2020	Echo Xu, Jared Miller, Antonia Wu, Miguel Castro, Mazze Whiteley, Taiqi He
2020-2021	Antonia Wu, Taiqi He, Lynnette Hersh, Abigail Liu, Kruttika Bhat
2021-2022	Antonia Wu, Lynnette Hersh, Brooke Thuy Hoang, Aishwarya Ganga Rajan
2022-2023	Lynnette Hersh, Brooke Thuy Hoang, Aishwarya Ganga Rajan, Laasya Babbellapati, Maya Angeline Wiegand
2023-2024	Brooke Thuy Hoang, Aishwarya Ganga Rajan, Maya Angeline Wiegand
2024-2025	Brooke Thuy Hoang, Maya Angeline Wiegand, Andra Cheng, Rhea Zhou, Stella Fultz, Ferdinand Kuanda, Shreya Kumar
2025-2026	Andra Cheng, Rhea Zhou, Stella Fultz, Ferdinand Kuanda, Shreya Kumar

Presentations & Papers with Undergraduate Mentees

1. Rajan, A.* , Kiat, J.E., K., Luck, S.J. (2024). Do the Number and Placement of EEG Electrodes Impact Multi-Variate Pattern Analyses (Decoding) of Visual Processing. Presented at the UC Davis 2024 Undergraduate Research Scholarship and Creative Activities Conference.
2. He, T.* , Boudewyn, M.A., Kiat, J.E., Sagae, K., Luck, S.J. (2021). Neural correlates of word representation vectors in natural language processing models: Evidence from representational similarity analysis of event-related brain potentials. *Psychophysiology*, 59(3). doi : [10.1111/psyp.13976](https://doi.org/10.1111/psyp.13976)
3. Kirkpatrick, R.P.* , Kiat, J.E., Belli, R.F. (2015). *False memories & motivation: What is lost when we prioritize information?* Presented at the UNL Spring Research Fair.
4. Cooney, S.* & O'Donnell, A.* Kiat, J.E., Belli, R.F. (2015). *Determining Correlates Between False Memory Paradigms: Do the DRM and Picture-Word Source Monitoring Task Predict Imagination & Observation Inflation?* Presented at the UNL Spring Research Fair.
5. Casey, S.* , Kiat, J.E., Straley, E., Cheadle, J.E., Brashears, M. (2015). *A Novel Approach to Study the Neural Bases of Social Networks*. Presented at the UNL Spring Fair.
6. Kaitlin, K.* , Kiat, J.E., Straley, E., Cheadle, Skinner, A. (2015). *Measuring Risk Taking Using EEG*. Presented at the UNL Spring Research Fair.
7. Zosky, J.E.* , Kiat, J.E., Kirkpatrick, R.P.* , Belli, R.F. (2014). *Object Typicality's Influence on the Misinformation Effect*. Presented at the UNL Spring Research Fair
8. Kiat, J.E., Qinyuen, W.* , Jeevagan, J.J.C.* , Suan, N.B.* (2010). Effects of Caffeine on Divergent Thinking. Presented at the 2010 World Conference on Psychology, Counseling and Guidance (WCPCG). Antalya, Turkey.
9. Kiat, J.E., Xin, L.J.* , Qinyuen, W* . (2010). Effects of Caffeine on Risk-Taking Behavior. Presented at the 2010 WCPCG. Antalya, Turkey.

* denotes mentee\

Academic Service

- Committee Member for a Peer Group Merit Review (2026)
- Committee member on two UNL Neuroimaging Center Director searches (2016 & 2017)
- Committee member on UNL Social Neuroscience Assistant Professor search (2013)

Ad hoc reviewer (Total # of reviews = 60): *Molecular Psychiatry, Cerebral Cortex, Neuroimage, Social Cognitive & Affective Neuroscience, Nature Scientific Reports, Psychophysiology, Journal of Neuroscience Research; Social Neuroscience, Cerebral Cortex Communications, Neuropsychologia, Journal of Adolescence, Journal of Neurophysiology, Frontiers in Neuroscience, Frontiers in Psychology; Memory & Cognition, Cognitive Affective & Behavioral Neuroscience, Personality and Social Psychology Bulletin, Drug & Alcohol Dependence, Attention Perception & Psychophysics, Journal of Cognitive Psychology, Human Movement Science, International Journal of Psychophysiology, Experimental Brain Research, Sensors, Quarterly Journal of Experimental Psychology, Brain Sciences, IEEE Access, Polish Psychological Bulletin, Applied Cognitive Psychology, Algorithms, Applied Sciences, PLOS One.*

Technical Skills Training

Neuroendocrinology

Salivary Bioscience Camp, UNL: Spring 2017

fMRI Analysis

FSL Training Workshop, UNL: Summer, 2017

NIH AFNI Boot Camp: Fall 2016

Electrophysiology

ERP Boot Camp, Davis: Summer, 2019

UC-Davis\SDSU Boot Camp: Summer, 2019

EcoG\EEG FieldTrip Boot Camp: Spring, 2019

Mini ERP Boot Camp, Davis: Fall, 2018

Developmental Brain Lab Boot Camp, UNL: Fall, 2012

Multimodal-Neuroimaging

Core Outreach Workshop, UNL: Summer 2017

Multi-Modality Imaging Course, MGH/MIT/HMS Martinos Center: Spring 2014

Skills

Software

EEG Analysis: EEGLab, ERPLab, EPtoolkit, sLORETA, Brainstorm, Netstation

fMRI Imaging Analysis: Freesurfer, AFNI, FSL

Programming Environments & Packages: Mplus, SAS, MATLAB, SPSS, Psychtoolbox, E-Prime, PsychoPy, Medialab, DirectRT, OpenSesame, Inquisit, C

Equipment

High-density EEG: Brain Products 32/64 channel actiChamp, EGI Geodesic 200/300/400

Low-density EEG: Emotive Epoc+

Eyetracking: Eyelink 1000/II

EEG Analysis

LDA/SVM based decoding

Representational Similarity Analysis

Threshold & ICA Based Artifact Detection Methods

Temporospatial PCA decomposition

FFT/Wavelet Decomposition: Event-Related/Resting State-Based

Source Localization Methods: Dipole/sLORETA/Measure Projection

Coherence/Correlation-based Connectivity Analysis

Quantitative

Convolutional Neural Network Modeling

General/Generalized Linear Models

Multilevel/Mixed Modeling

Structural Equation Modeling

Confirmatory Factor Analysis

Meta-analytic Methods

Clustering Methods

Nonparametric Methods

Power Estimation: Model/Simulation

Exploratory Data Analysis

Workshops Conducted

2015	2-week NSOC Lab EEG Bootcamp: Instructor, UNL
2014	8-week Introduction to EEG Analysis: Instructor, UNL
2014	8-week EEG Artifact Correction & Advanced Analyses: Instructor UNL
2014	3-week BRAiN Lab EEG Bootcamp: Instructor, UNL
2013	4-week BRAiN Lab EEG Bootcamp: Instructor, UNL

TEACHING EXPERIENCE

Instructor, UNL

Human Memory: Summer 2013

Graduate Teaching Assistant, UNL

Introduction to Cognitive Psychology: Spring 2014, Fall 2013, Spring 2013, Fall 2012

Human Memory: Spring 2012, Fall 2011

Graduate Teaching Assistant, HUC

Biopsychology: Spring 2009, Fall 2009

Cognitive Psychology: Spring 2009, Fall 2009, Spring 2011

Social Psychology: Fall 2008, Spring 2011

Advanced Research Methods: Spring 2010, Spring 2011

Introduction to Quantitative Methods: Spring 2008, Fall 2008

Advanced Quantitative Methods: Spring 2009, Fall 2009

Introduction to Psychology: Spring 2008, Fall 2008

References

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