Christopher Lee Asplund

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Research Interests

I study attentional control and its relationship to consciousness. Attentional focus is influenced by multiple factors, including goals, action history, cognitive state, and events in the environment. Although these influences usually lead to successful behaviors, attention may be misallocated or overwhelmed. For example, we may fail to see something right before our eyes or to do two things at once.

My research addresses how such limitations arise, how they might be circumvented, and what they reveal about control and consciousness. To explore these ideas, my colleagues and I conduct behavioral and neuroimaging (fMRI) experiments. These investigations center on fundamental research in vision but extend to audition and somatosensation, as well as to applied work with training and human-computer interactions.

Teaching Interests

I am passionate about both communicating science and helping others develop into thoughtful, productive, and happy members of society. To these ends, I use multiple teaching approaches, including giving lectures, conducting seminars, and mentoring one-on-one. I also believe that my active involvement in research doubly benefits students, allowing me to bring current approaches and issues into the classroom while providing them with opportunities for hands-on learning and experimentation.

I am an inaugural faculty member at Yale-NUS College. As a liberal arts college, the institution focuses on providing an excellent undergraduate education with a broad sampling of courses ranging from the humanities to the sciences, active learning in small seminar-style classes, participation in community initiatives, and deep investigation through research.

Education

- **Vanderbilt University (Vanderbilt Brain Institute)** — Nashville, TN, USA
  Ph.D. Integrative & Cognitive Neuroscience — *2004 – 2010*
  - Advisor: René Marois, Ph.D.
  - Dissertation: The coordination and control of attention in lateral prefrontal cortex
- **Princeton University** — Princeton, NJ, USA
  A.B. Psychology (Cognitive) — *1999 – 2003*

Current Appointments

- **Assistant Professor** — *2013 – present*
  Division of Social Sciences, Yale-NUS College
- **Assistant Professor** — *2017 – present*
  Clinical Imaging Research Centre, Yong Loo Lin School of Medicine
- **Principal Investigator** — *2014 – present*
  N.1 Institute for Health (formerly SINAPSE), National University of Singapore
- **Assistant Professor (courtesy appointment)** — *2013 – present*
  Neuroscience and Behavioural Disorders, Duke-NUS Medical School
- **Assistant Professor (courtesy appointment)** — *2016 – present*
  Department of Psychology, National University of Singapore
- **Affiliated Faculty** — *2017 – present*
  Institute for Application of Learning Science and Educational Technology (ALSET), National University of Singapore

Previous Appointments

- **Head of Studies & Capstone Coordinator (Psychology)** — *2017 – 2018*
  Division of Social Sciences, Yale-NUS College
- **Teaching Scholar** — *2011 – 2013*
  Duke-NUS & National University Singapore, Singapore
  - Course coordinator & lecturer for NUS Freshman seminar *From Bench to Bedside* (FMS1201D)
- **Research Fellow** — *2010 – 2013*
  Duke-NUS Graduate Medical School, Singapore
  - Lab of Dr. Michael W.L. Chee, M.B.B.S.

Peer-Reviewed Publications (also available at www.chrisasplund.com)

*****Undergraduate student author.

1) Kee, T., Weiyan, C., Blasiak, A., Wang, P., Chong, J.K., *****Chen, J., Yeo, B.T.T., Ho, D., & **Asplund, C.L.** (2019). Harnessing CURATE.AI as a digital therapeutics platform by identifying N-of-1 learning trajectory profiles. *Advanced Therapeutics*. https://doi.org/10.1002/adtp.201900023 (PDF)

2) Tamber-Rosenau, B.J., **Asplund, C.L.**, & Marois, R. (2018). Functional dissociation of the inferior frontal junction from the dorsal attention network in top-down attentional control. *Journal of Neurophysiology, 120*: 2498-2512. https://doi.org/10.1152/jn.00506.2018 (PDF)

3) Kong, D., **Asplund, C.L.**, Ling, A., & Chee, M.W.L. (2015). Increased automaticity and altered temporal preparation following sleep deprivation. *Sleep, 38*(8): 1219-1227. (PubMed, PDF)

4) Yeo, B.T.T., Krienen, F.M. Eickhoff, S.B., Yaakub, S.N., Fox, P.T., Buckner, R.L., **Asplund, C.L.**, & Chee, M.W.L. (2015). Functional specialization and flexibility in human association cortex. *Cerebral Cortex, 25*: 3654-3672. (PubMed, PDF, interactive ontology - NUS or MIT)

5) Treadway, M.T., Buckholtz, J.W., Martin, J.W., Jan, K., **Asplund, C.L.**, Ginther, M.R., Jones, O.D., & Marois, R. (2014). Corticolimbic gating of emotion-driven punishment. *Nature Neuroscience, 17*(9): 1270-1275. (PubMed, PDF)

6) Kong, D., **Asplund, C.L.**, & Chee, M.W.L. (2014). Sleep deprivation reduces the rate of rapid picture processing. *NeuroImage, 91*: 169-176. (PubMed, PDF)

7) **Asplund, C.L.**, Fougnie, D., Zughni, S., Martin, J.W., & Marois, R. (2014). The attentional blink reveals the probabilistic nature of discrete conscious perception. *Psychological Science, 25*(3): 824-831. (PubMed, PDF)

8) Ong, J.L., **Asplund, C.L.**, Chia, T.T.Y., & Chee, M.W.L. (2013). Now you hear me, now you don't: Eyelid closures as an indicator of auditory task disengagement. *Sleep, 36*(12): 1867-1874. (PubMed, PDF)

9) Yaakub, S.N., Dorairaj, K., Poh, J.S., **Asplund, C.L.**, Krishnan, R., Lee, J., Keefe, R.S.E., Adcock, R.A., Wood, S.J., & Chee, M.W.L. (2013). Preserved working memory and altered brain activation in persons at risk for psychosis. *American Journal of Psychiatry, 170*(11): 1297-1307. (PubMed, PDF)

10) **Asplund, C.L.** & Chee, M.W.L. (2013). Time-on-task and sleep deprivation effects are evidenced in overlapping brain areas. *NeuroImage, 82*: 326-335. (PubMed, PDF)

11) Wong, P., Peebles, J.K., **Asplund, C.L.**, Collins, C.E., Herculano-Houzel, S., & Kaas, J.H. (2013). Faster scaling of auditory neurons in cortical areas relative to subcortical structures in primate brains. *Brain, Behavior and Evolution, 81*(4): 209-218. (PubMed, PDF)

12) Wee, N., **Asplund, C.L.**, & Chee, M.W.L. (2013). Sleep deprivation accelerates delay-related loss of visual short-term memories without affecting precision. *Sleep, 36*(6): 849-856. (PubMed, PDF)

13) Tamber-Rosenau, B.J., Dux, P.E., Tombu, M.N., **Asplund, C.L.**, & Marois, R. (2013). Amodal processing in human prefrontal cortex. *The Journal of Neuroscience, 33*(28): 11573-11587. (PubMed, PDF)

14) Tombu, M.N., **Asplund, C.L.**, Dux, P.E., Godwin, D., Martin, J.W., & Marois, R. (2011). A unified attentional bottleneck in the human brain. *Proceedings of the National Academy of Sciences, 108*(33): 13426-31. (PubMed, PDF)

15) Jepma, M., Deinum, J., **Asplund, C.L.**, Rombouts, S.A.R.B, Tamsma, J.T., Tjeerdema, N., Spapé, M.M., Garland, E.M., Robertson, D., Lenders, J.W.M., & Nieuwenhuis, S. (2011). Neurocognitive function in dopamine-β-hydroxylase deficiency. *Neuropsychopharmacology, 36*(8): 1608-19. (PubMed, PDF)

16) **Asplund, C.L.**, Todd, J.J., Snyder, A.D., Gilbert, C.M., & Marois, R. (2010). Surprise-induced Blindness: A stimulus-driven attentional limit to conscious perception. *Journal of Experimental Psychology: Human Perception & Performance, 36*(6): 1372-81. (PubMed, PDF)

17) Fougnie, D.L., **Asplund, C.L.**, & Marois, R. (2010). What are the units of storage in visual working memory? *Journal of Vision, 10*(12): 27, 1-11. (PubMed, PDF)

18) Rogers, B.P., Katwal, S.B., Morgan, V.L., **Asplund, C.L.**, & Gore, J.C. (2010). Functional MRI and multivariate autoregressive models. *Magnetic Resonance Imaging, 28*(8): 1058-65. (PubMed, PDF)

19) **Asplund, C.L.**, Todd, J.J., Snyder, A.D., & Marois, R. (2010). A central role for the lateral prefrontal cortex in goal-directed and stimulus-driven attention. *Nature Neuroscience, 13*(4): 507-12. (PubMed, PDF)

20) Dux, P.E., **Asplund, C.L.**, & Marois, R. (2009). Both exogenous and endogenous target salience manipulations support resource depletion accounts of the attentional blink: A reply to Olivers et al. (2009). *Psychonomic Bulletin & Review, 16*(1): 219-24. (PubMed, PDF)

21) Buckholtz, J.W., **Asplund, C.L.**, Dux, P.E., Zald, D.H., Gore, J.C., Jones, O.D., & Marois, R. (2008). The neural correlates of third-party punishment. *Neuron, 60*(5), 930-40. (PubMed, PDF)

22) Dux, P.E., **Asplund, C.L.**, & Marois, R. (2008). An attentional blink for sequentially presented targets: Evidence in favor of resource depletion accounts. *Psychonomic Bulletin & Review, 15*(4), 809-13. (PubMed, PDF)

23) Dux, P.E., Ivanoff, J.G., **Asplund, C.L.**, & Marois, R. (2006). Isolation of a central bottleneck of information processing with time-resolved fMRI. *Neuron, 52*(6), 1109-20. (PubMed, PDF)

Grants & Funding

- **The attentional components of Autism as a disorder of prediction** *2018 – 2019*
  Role: PI, Source: Yale-NUS Internal Funds, Amount: S$84,100
- **LIFT: Using machine Learning to Identify predictive neuropsychological Factors behind cogniTive improvements** *2017 – 2020*
  Role: PI, Source: DSO National Laboratories, Amount: S$709,920
- **High-memory, high-core, high-performance research computer** *2016 – 2017*
  Role: Co-PI, Source: Yale-NUS Instrumentation Grant, Amount: S$81,370
- **A neurocognitive approach to characterizing and predicting training outcomes** *2015 – 2017*
  Role: PI, Source: Singapore Ministry of Defence, Amount: S$456,703
- **An fMRI investigation of visual speed of processing in MCI patients** *2015 – 2018*
  Role: Co-PI, Source: Clinical Imaging Research Centre, Amount: S$49,700
- **Neural and Behavioural Predictors of Detection and Distraction** *2015 – 2016*
  Role: PI, Source: NUS Cross-Faculty Research Grant, Amount: S$25,000
- **Information processing in the brain: Trade-offs and timing** *2013 – 2018*
  Role: PI, Source: Yale-NUS Start-up Grant, Amount: S$75,000

Awards & Honors

Elaine Sanders-Bush Graduate Research Award *2010*
Vanderbilt Brain Institute Graduate Poster Prize *2009*
Graduate Training Fellowship, Vanderbilt Brain Institute . . . . . *2004 – 2006*

Book Chapters, Educational Publications, & Relevant Popular Articles

1) **Asplund, C.L.** & *Venkatesan, T.L. (2013). Communicating Science. (Interview edited by Lim, R.) *Asia Pacific Biotech News, 17*(10-11): 25-28.

2) Chee, M.W.L. & **Asplund, C.L.** (2013). Neuroimaging of attention and alteration of processing capacity in sleep-deprived persons. In *Neuroimaging of Sleep and Sleep Disorders* (E. Nofzinger, P. Maquet, & M.J. Thorpy, eds.), Cambridge University Press: 137-144.

3) *Pang, S.J., *Tan, Q.A., *Chong, C., & **Asplund, C.L.** (2013). Neurobiology of Attention. In *The Brain Book 2* (Lim, K.-L. & Tuck, W.S., eds.), Department of Physiology, NUS Yong Loo Lin School of Medicine (Singapore): 5-8.

International Academic Talks

1) **Asplund, C.L.**, Wu, E.X.W., Liaw, G.J., *Goh, R.Z., *Chee, A.M.J., Chia, T.T.Y., & Yeo, B.T.T. (2019). Attentional state modulates connectome-based predictions of cognitive performance. Talk to be given at the Asia-Pacific Coneference on Vision. Osaka, Japan.

2) **Asplund, C.L.** (2019). Don't be surprised! Unexpected stimuli capture attention and impose costs within and across sensory modalities. Talk given at New York University, Abu Dhabi. United Arab Emirates.

3) **Asplund, C.L.** & Obana, T. (2018). Unexpected stimuli capture attention and impose detection costs across modalities. Talk given at the Asia-Pacific Coneference on Vision. Hangzhou, China.

4) **Asplund, C.L.**, *Ongchoco, J.D.K., & *Reid, J.M. (2015). The attentional blink reveals the probabilistic nature of discrete conscious perception. Talk given at the Asia-Pacific Conference on Vision. Singapore.

5) **Asplund, C.L.**, Fougnie, D., Zughni, S., Martin, J.W., & Marois, R. (2014). The attentional blink reveals the probabilistic nature of discrete conscious perception. Talk given at the Australasian Society for Experimental Psychology annual meeting. Brisbane, Australia.

6) **Asplund, C.L.**, Mulick, D., De Havas, J. & Chee, M.W.L. (2012). Convergence of vigilance decrements and sleep deprivation effects in brain areas recruited by an attention-demanding task. Talk given at the Associated Professional Sleep Societies annual meeting. Boston, MA, USA.

7) **Asplund, C.L.**, Todd, J.J., Snyder, A.D., Gilbert, C.M., & Marois, R. (2009). Convergence of goal-directed and stimulus-driven selection in lateral prefrontal cortex. Talk given at Vision Sciences Society annual meeting. Naples, FL, USA.

8) **Asplund, C.L.**, Todd, J.J., Snyder, A.D., Gilbert, C.M., & Marois, R. (2008). The ventral, but not dorsal, attention network mediates a stimulus-driven attentional limit to conscious perception. Talk given at the Society for Neuroscience annual meeting. Washington, D.C., USA.

Local and Educational Talks

1) **Asplund, C.L.** (2019). What's your state of mind? Connectome-based predictions of task performance are contingent on neurocognitive state. Talk given at the IEEE Engineering in Medicine and Biology Singapore Symposium. Singapore.

2) **Asplund, C.L.** (2018). Don't be surprised! Unexpected stimuli capture attention and impose costs within and across sensory modalities. Talk given at Nanyang Technological University. Singapore.

3) **Asplund, C.L.** (2018). Images of the Mind: The promise and perils of modern cognitive neuroscience. Talk given at Pint of Science. Singapore.

4) **Asplund, C.L.** (2017). What does the brain tell us about the mind? The promise and perils of modern cognitive neuroscience. Talk given at Think Big student conference. Kuala Lumpur, Malaysia.

5) **Asplund, C.L.** (2017). Don't be surprised: Unexpected events reveal much about the control of attention. Talk given at United World College Southeast Asia. Singapore.

6) **Asplund, C.L.** (2016). An individual differences approach to understanding attentional limitations in vision and audition. Talk given at Duke-NUS Graduate Medical School. Singapore.

7) **Asplund, C.L.** (2016). The promise and perils of modern cognitive neuroscience: Predicting behavior, reading minds, and understanding ourselves. Talk given for Yale Young Global Scholars. Singapore.

8) **Asplund, C.L.** (2015). Top-down and bottom-up influences on attention and awareness. Talk given at Nanyang Technological University. Singapore.

9) **Asplund, C.L.** (2015). Neural correlates and individual differences for top-down and bottom-up influences on attention. Talk given for Singapore Institute of Neurotechnology (SINAPSE) research symposium. Singapore.

10) **Asplund, C.L.** (2014). Don't be surprised: Unexpected events reveal much about the control of attention. Talk given at National University of Singapore, Department of Psychology. Singapore.

11) **Asplund, C.L.** (2013). Do conscious representations form and degrade gracefully or all at once? Talk given at Duke-NUS Graduate Medical School. Singapore.

12) **Asplund, C.L.** (2013). What can we learn from our cognitive limitations? Talk given at CogSci Connects student conference. Singapore.

13) **Asplund, C.L.** (2012). Images of the Mind: The perils and promise of fMRI. Talk given for Science Café. Singapore.

International Conference Presentations

1) Derbyshire, S.W.G., **Asplund, C.L.**, *Long, V.J.E., & *Kannangath, A. (2019). Exploring the peripheral and central contributions to offset analgesia with stimulus placement and timing. Talk to be given at the Society for Neuroscience annual meeting. Chicago, IL, USA.

2) *Loh, I.H.E., Obana, T., Goh, T.J., *Poh, E.J.W., & **Asplund, C.L.** (2019). Normal visuo-auditory and visuo-tactile processing in high functioning adults with autism spectrum disorder. Poster to be presented at the Asia-Pacific Coneference on Vision. Osaka, Japan.

3) *Mark, L., **Asplund, C.L.**, Kuek, N.M.Y., & Liu, J.C.J. (2018). When time stands still: Exploring trait and state influences on time perception during the week. Poster presented at the Society for Neuroscience annual meeting. San Diego, CA, USA.

4) **Asplund, C.L.**, Wu, E.X.W., Liaw, G.J., *Chee, A.M.J., Chia, T.T.Y., & Yeo, B.T.T. (2018). Connectome-based predictive models account for individual differences in the attentional blink. Poster presented at the Society for Neuroscience annual meeting. San Diego, CA, USA.

5) Derbyshire, S.W.G., **Asplund, C.L.**, *Long, V.J.E., Teng, I.P.W., Siling, M.L., & Ho, C. (2018). Adventures in offset analgesia: The influence of chronic pain, depression, limbs, and timing. Poster presented at IASP World Congress on Pain. Boston, MA, USA.

6) Weiyan, C., Narun, P., **Asplund, C.L.**, & Yu, R. (2018). Attentional biases adapt to dynamic updates of value. Talk given at the Japan Neuroscience Society annual meeting. Kobe, Japan.

7) Wu, E.X.W., Liaw, G.J., *Chee, A.M.J., Chia, T.T.Y., Yeo, B.T.T., & **Asplund, C.L.** (2018). Predicting individual differences in attentional blink with functional connectivity. Poster presented at the Asia-Pacific Conference on Vision. Hangzhou, China.

8) Liaw, G.J., Chia, T.T.Y., & **Asplund, C.L.** (2018). Is non-spatial contingent capture an attentional blink? An individual differences analysis. Poster presented at the Asia-Pacific Conference on Vision. Hangzhou, China.

9) Weiyan, C., Narun, P., **Asplund, C.L.**, & Yu, R. (2018). Attentional biases adapt to dynamic updates of value. Poster presented at the Asia-Pacific Conference on Vision. Hangzhou, China.

10) Liaw, G.J., Obana, T., Chia, T.T.Y., & **Asplund, C.L.** (2017). Shared and distinct information processing limitations across attentional forms and modalities. Poster presented at the Asia-Pacific Conference on Vision. Tainan, Taiwan.

11) **Asplund, C.L.**, *Ongchoco, J.D.K., Liaw, G.J., & *Reid, J.M. (2017). The attentional blink reveals discrete perceptual transitions, whereas both spatial and temporal cueing show graded attentional effects. Poster presented at the Vision Sciences Society annual meeting. St. Pete Beach, FL, USA.

12) Obana, T., Lim, S.W.H., & **Asplund, C.L.** (2015). Surprise-induced deafness: Investigating a bottleneck of stimulus-driven auditory attention. Poster presented at the Psychonomic Society annual meeting. Chicago, IL, USA.

13) Yeo, B.T.T., Tandi, J., Ong, J.L., **Asplund, C.L.**, Kong, D., & Chee, M.W.L. (2014). Stronger anti-correlations in association cortex predict resiliancy to sleep deprivation. Poster presented at the Organization for Human Brain Mapping annual meeting. Hamburg, Germany.

14) Ong, J.L., Kong, D., Chia, T.T.Y., **Asplund, C.L.**, & Chee, M.W.L. (2014). Neural correlates of eye closure during sleep deprivation. Poster presented at the Organization for Human Brain Mapping annual meeting. Hamburg, Germany.

15) Chee, M.W.L., Ling, A., & **Asplund, C.L.** (2013). Preserved implicit timing and altered preparation strategy during sleep deprivation. Poster presented at the Society for Neuroscience annual meeting. San Diego, CA, USA.

16) **Asplund, C.L.**, Yeo, B.T.T., Krienen, F.M., Yaakub, S.N., & Chee, M.W.L. (2013). Large-scale meta-analysis of functional specialisations in prefrontal cortex. Poster presented at the Society for Neuroscience annual meeting. San Diego, CA, USA.

17) Yeo, B.T.T., Krienen, F.M., **Asplund, C.L.**, Yaakub, S.N., & Chee, M.W.L. (2013). Discovering latent cognitive processes involved in internal mentation tasks via a large-scale meta-analysis. San Diego, CA, USA.

18) **Asplund, C.L.**, Wee, N., & Chee, M.W.L. (2013). Sleep deprivation accelerates delay-related loss of visual short-term memories without affecting precision. Poster presented at the Cognitive Science Society annual meeting. Berlin, Germany.

19) Yeo, B.T.T., Krienen, F., Yaakub, S.N., **Asplund, C.L.**, Buckner, R., & Chee, M.W.L. (2013). Inferring ontologies of mind-brain relations from neuroimaging data. Poster presented at the Organization for Human Brain Mapping annual meeting. Seattle, WA, USA.

20) Kong, D., **Asplund, C.L.**, & Chee, M.W.L. (2013). Sleep deprivation exacerbates temporal limitations in object processing. Poster presented at the Organization for Human Brain Mapping annual meeting. Seattle, WA, USA.

21) Kong, D., **Asplund, C.L.**, & Chee, M.W.L. (2012). Sleep deprivation exacerbates temporal processing limitations in object processing. Poster presented at the Society for Neuroscience annual meeting. New Orleans, LA, USA.

22) Yaakub, S.N., Dorairaj, K., Poh, J.S., **Asplund, C.L.**, Keong, J.L.C., Krishnan, R., Keefe, R., Adcock, R.A., Wood, S.J., & Chee, M.W.L. (2012). Individuals at-risk for psychosis show altered brain activity during working memory task. Poster presented at the Organization for Human Brain Mapping annual meeting. Beijing, China.

23) Marois, R., **Asplund, C.L.**, Zughni, S., Fougnie, D., & Martin, J. (2012). Graded vs. quantal allocation of attention and awareness. Talk given at the Vision Sciences Society annual meeting. Naples, FL, USA.

24) Tamber-Rosenau, B.J., Dux, P.E., Tombu, M.N., **Asplund, C.L.**, & Marois, R. (2011). Multivoxel pattern analysis fMRI evidence for amodal central processing in the human prefrontal cortex. Poster presented at the Society for Neuroscience annual meeting. Washington, D.C., USA.

25) **Asplund, C.L.** & Chee, M.W.L. (2011). Convergence of vigilance decrements and sleep deprivation effects in brain areas recruited during an attention-demanding task. Poster presented at the Society for Neuroscience annual meeting. Washington, D.C., USA.

26) **Asplund, C.L.** & Marois, R. (2010). Functional dissociation of lateral prefrontal cortex and the dorsal network in the endogenous control of attention. Poster presented at the Society for Neuroscience annual meeting. San Diego, CA, USA.

27) Fougnie, D., **Asplund, C.L.**, Watkins, T.J. & Marois, R. (2010). Object features reduce the precision of working memory. Talk given at the Vision Sciences Society annual meeting. Naples, FL, USA.

28) Tombu, M., **Asplund, C.L.**, Dux, P.E., & Marois, R. (2010). A unified processing bottleneck in human prefrontal cortex. Poster presented at the Cognitive Neuroscience Society annual meeting. Montreal, Quebec, Canada.

29) **Asplund, C.L.**, Todd, J.J., Snyder, A.D., & Marois, R. (2009). Convergence of goal-direceted and stimulus-driven attention in ventrolateral prefrontal cortex. Poster presented at the Society for Neuroscience annual meeting. Chicago, IL, USA.

30) Dux, P.E., **Asplund, C.L.**, & Marois, R. (2009). Both exogenous and endogenous target salience manipulations support resource depletion accounts of the attentional blink. Talk given at Vision Sciences Society annual meeting. Naples, FL, USA.

31) Fougnie, D.L., **Asplund, C.L.**, & Marois, R. (2009). Visual working memory capacity can be assessed independent of comparison errors. Poster presented at the Vision Sciences Society annual meeting. Naples, FL, USA.

32) Buckholtz, J.W., **Asplund, C.L.**, Dux, P.E., Zald, D.H., Gore, J.C., Jones, O.D., & Marois, R. (2007). The neural basis of legal decision making. Talk given at the Society for Neuroscience annual meeting. San Diego, CA, USA.

33) **Asplund, C.L.** & Marois, R. (2007). An fMRI comparison of Theory of Mind, Default Mode of Processing, stimulus-driven attention, and egocentric spatial attention networks. Poster presented at the Organization for Human Brain Mapping annual meeting. Chicago, IL, USA.

34) Dux, P.E., **Asplund, C.L.**, & Marois, R. (2007). Evidence in favor of a resource depletion account of the attentional blink. Poster presented at the Vision Sciences Society annual meeting. Sarasota, FL, USA.

35) Dux, P.E., Ivanoff, J.G., **Asplund, C.L.**, & Marois, R. (2006). Isolation of a central bottleneck of information processing with time-resolved fMRI. Poster presented at the Society for Neuroscience annual meeting. Atlanta, GA, USA.

Courses Developed & Taught

Full courses. *The first semester during which a new course was offered.

- **Human Neuroscience (YSS3249)** — *Autumn 2019*
- **Cognitive Psychology (YSS3215)** — *Spring 2019*
- **Lab in Cognitive Psychology (YSS3267)** — **Spring 2018*
  Laboratory course for the Psychology major
- **Understanding Behavior & Cognition (YSS2201) - two sections** — *Autumn 2017*
- **Cognitive Psychology (YSS3215)** — *Spring 2017*
  Course coordinator, unit developer & section leader
- **Human Neuroscience (YSS3249)** — **Spring 2017*
  Core course in Psychology major, elective in Life Sciences major
- **Understanding Behavior & Cognition (YSS2201) - two sections** — *Autumn 2016*
- **Cognitive Psychology (YSS3215)** — **Autumn 2015*
  Core course in the Psychology major
- **Understanding Behavior & Cognition (YSS2201) - two sections** — *Autumn 2015*
  Delivered in team of 2
- **Quantitative Reasoning (YCC1122)** — *Spring 2015*
  Unit developer & section leader (team of 7)
- **Understanding Behavior & Cognition (YSS2201)** — *Spring 2015*
  Redeveloped as a single-faculty course
- **Scientific Inquiry (YCC1131)** — *Autumn 2014*
  Unit developer & section leader (team of 8)

- **Understanding Behavior & Cognition (YSS2201)** **Autumn 2014*
  Gateway course for the Psychology major (team of 2)
- **Quantitative Reasoning (YCC1122) - two sections** **Spring 2014*
  Unit developer & section leader (team of 8)
- **Scientific Inquiry (YCC1131)** **Autumn 2013*
  Unit developer & guest lecturer (team of 10)
- **Comparative Social Institutions (YCC1121)** **Autumn 2013*
  Unit developer & guest lecturer (team of 10)
- **Bench to Bedside (FMS1201D)** *2011-2013*
  Course coordinator, unit developer, & lecturer (team of 8)

Mini courses.

Learning Across Boundaries (Week 7): Stories of Ourselves . . . . . *Autumn 2016*
Learning Across Boundaries (Week 7): Stories of Ourselves . . . . . *Autumn 2015*
Various independent study modules, detailed in the next section *2014-2018*

Academic Service

Organizing committee member, Asia-Pacific Conference on Vision 2021 . . . . . *2019 – present*
Member, Yale-NUS Latin Honours Review Committee . . . . . *2019 – present*
Member, CIRC Scientific Management Committee . . . . . *2018 – present*
Yale-NUS Faculty Advisor, Aloe: A Mental Health Group . . . . . *2017 – present*
Member, Yale-NUS Science Curriculum Task Force . . . . . *2016 – 2017*
Member, Yale-NUS Common Curriculum Self-Study Committee . . . . . *2015 – 2016*
Member, Yale-NUS Readmissions Committee . . . . . *2014 – 2015*
Member, Yale-NUS Committee for Faculty Affairs . . . . . *2014 – 2015*
Member, Yale-NUS Information Technology Committee . . . . . *2013 – 2014*
Committee Member, DUNES (Duke-NUS Early Career Scientists Association) . . . *2011 – 2013*
Vanderbilt Brain Blast, Adventure Science Center . . . . . *2005 – 2009*
Academic Coordinator, Vanderbilt Neuroscience Student Organization . . . . . *2007 – 2008*
Webmaster, Vanderbilt Neuroscience Student Organization . . . . . *2006 – 2007*

Ad hoc journal review

Neuron, Cerebral Cortex, Journal of Neurophysiology, Journal of Neuroscience, Journal of Cognitive Neuroscience, Journal of Experimental Psychology: Human Perception & Performance, PLoS ONE, NeuroImage, Cognition, Psychonomic Bulletin & Review, Neuropsychologia, Attention Perception & Psychophysics, Journal of Experimental Psychology: Learning Memory & Cognition, Quarterly Journal of Experimental Psychology, Journal of Experimental Psychology: General, Psychological Research, and the Journal of the International Neuropsychological Society

Grant review

Ministry of Education Tier 2 applications.

PhD thesis advisory committee membership

Yue Wan Lin (Duke-NUS, 2019-present)
Yeo Sing Chen (Duke-NUS, 2018-present)

PhD thesis examiner

Zhang Mengmi (NUS NGS, 2019)
Indu Prasad Bodala (NUS NGS, 2017-2018)
Hung Shao-Min (Duke-NUS, 2017)
Esther Wu (NUS Psychology, 2015)

Researchers Supervised & Trained

Research fellows, assistants, and interns

Obana Takashi (Research Fellow, since 2017)
Esther Wu (Research Fellow, since 2017)
Fiona Yong (Research Assistant, since 2019)
Gwenisha Liaw (Research Assistant, 2015-2019)
Chee Weiyan (Research Assistant, 2017-2018)
Tan Zhi Yi (Intern, 2018)
Vedanta Attri (Intern, 2016-2017)
Tiffany Chia (Research Assistant, 2014-2016)
Ido Amihai (Research Fellow, 2014-2015)

Graduate students

Alvin Wong (Master's candidate, 2019-, with Stuart Derbyshire)
Stevia Ng (Master's candidate, 2016-, with Stuart Derbyshire)
Caroline Wong (Master's candidate, 2016-2019, with Stuart Derbyshire)
Obana Takashi (PhD, 2014-2017, with Stephen Lim)

Undergraduate research assistants

Leong En-Lin (since 2019)
Saw Young Ern (since 2016)
Edina Tan (since 2016)
Hajin Hyun (2018)
Elysia Poh (2016-2018)
Koh Xun Quan (2017-2018)
Lingges Rao (2017-2018)
Chong Wen Wei (2017-2018)
Koh Kian Hao (2017-2018)
Grace Kwak (2018)
Goh Rui Zhe (2018)
Anjali Kannangath (2018)
Ng Weng Lin (2018)
Kirsten Ho (2018)
Joan Ongchoco (2013-2017)
Adrian Stymne (2013-2016)
Anjali Hazra (2015-2016)
Clin Lai (2015-2016)
Wang JunYang (2016)
Andy Chen (2013-2015)
John Reid (2014-2015)
Helen Jin (2014-2015)
Roshan Singh (2014-2015)
Denise Ng (2013-2014)
Koh Wei Jie (2014)

Capstone students

Lingges Rao (2018-2019)
Clin Lai (2017-2018)
Glen Koh (2017-2018)
Yong Kai Yi (2017-2018, with Simon Perrault)
Victoria Long (2016-2017, with Stuart Derbyshire)
Kevin Low (2016-2017)
Felicia Tan (2016-2017)
Parag Bhatnagar (2016-2017, with Simon Perrault)

Other undergraduates engaged in independent research

Goh Rui Zhe (Special Project in Science, 2018)
Alvin Wong (Independent Research Project, 2018)
Iris Loh (Psychology Honors Thesis, 2017-2018)
Alicia Chee (Engineering Honors Thesis, 2017-2018, with Thomas Yeo)
Fung Tak Shun (UROPS student, 2015)