

Kimberly S. Chiew

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Employment

2017-present Assistant Professor
Department of Psychology
University of Denver

Education & Training

2013-2017 Postdoctoral Fellow, Motivated Memory Lab
Center for Cognitive Neuroscience
Duke University
PI: R. Alison Adcock

2013 Ph.D., Psychology, Washington University
Specialization: Brain, Behavior & Cognition
Cognitive, Computational, & Systems Neuroscience Pathway
Dissertation Title: *Emotion versus Motivation: Probing Dissociable Influences on Cognitive Control Through Task Performance, Pupillometry Methods, and Individual Differences*
Advisor: Todd S. Braver

2005 B.Sc.(Hons), Neuroscience, University of Toronto
Graduated with Distinction
Psychology Minor

Extramural Funding

Withdrawn PI: K99/R00 Pathway to Independence Award (NIH/NIMH)
Beyond Reward: Approach and avoidance motivation generate functional contexts for cognitive control and adaptive memory
Withdrawn due to acceptance of faculty position

2014-2017 Postdoctoral Fellowship, Canadian Institutes of Health Research
(\$150,000 CDN).

- 2009-2012 Canada Graduate Scholarship, Doctorate Level, Natural Sciences and Engineering Research Council of Canada (\$63,000 CDN).
- 2008-2009 Canada Graduate Scholarship, Master's Level, Natural Sciences and Engineering Research Council of Canada (\$18,500 CDN)

Awards & Honors

- 2017 Travel Award, Scientific Research Network on Decision Neuroscience and Aging Methodology Workshop
- 2015 Early Career Investigator Travel Award, Duke University Department of Psychiatry and Behavioral Sciences
- 2014-2015 Fellow, Preparing Future Faculty Program, Duke University
Competitive professional development program preparing postdocs and senior graduate students for faculty roles in research, teaching, and service
- 2013 Travel Award, Mechanisms of Motivation, Cognition, & Aging Conference
- 2012 Dissertation Fellowship, Washington University
- 2012 Travel Award, Wisconsin Symposium on Emotion
- 2011 Fellow, NIMH Summer Institute in Cognitive Neuroscience
- 2011 Travel Award, Determinants of Executive Function and Dysfunction Conference, University of Colorado
- 2008-2010 Cognitive, Computational & Systems Neuroscience Trainee, McDonnell Centre for Systems Neuroscience
- 2007 University Fellowship, Washington University
- 2007 Ontario Graduate Scholarship (declined)

Publications

(Google Scholar h-index: 13)

Peer-Reviewed Journal Articles

1. **Chiew, K.S.**, Stanek, J.K., Adcock, R.A. (2016). Reward anticipation dynamics during cognitive control and episodic memory performance: implications for dopamine. *Frontiers in Human Neuroscience*. 10:555. doi: 10.3389/fnhum.2016.00555.
2. **Chiew, K.S.**, Braver, T.S. (2016). Reward favors the prepared: incentive and task-informative cues interact to enhance attentional control. *Journal of Experimental Psychology: Human Perception and Performance*. 42: 52-66.
3. Braver, T.S., Krug, M.K., **Chiew, K.S.**, Kool, W., Clement, N.J., Adcock, R.A., Barch, D.M., Botvinick, M.M., Carver, C.S., Cools, R., Custers, R., Dickinson, A.R., Dweck, C.S., Fishbach, A., Gollwitzer, P.M., Hess, T.M., Isaacowitz, D.M., Mather, M., Murayama, K., Pessoa, L., Samanez-Larkin, G.R., Somerville, L.H., for the MOMCAI group. (2014). Mechanisms of motivation-cognition interaction: challenges and opportunities. *Cognitive, Affective and Behavioral Neuroscience*, 14: 443-72.
4. **Chiew, K.S.**, Braver, T.S. (2014). Dissociable influences of reward motivation and positive emotion on cognitive control. *Cognitive, Affective and Behavioral Neuroscience*, 14: 509-29.
5. Zedelius, C.M., Veling, H., Custers, R., Bijleveld, E., **Chiew, K.S.**, Aarts, H. (2014). A new perspective on human reward research: how consciously and unconsciously perceived reward information influences performance. *Cognitive, Affective and Behavioral Neuroscience*, 14: 493-508.
6. **Chiew, K.S.**, Braver, T.S. (2013). Temporal dynamics of motivation-cognitive control interactions revealed by high-resolution pupillometry. *Frontiers in Psychology* 4:15. doi: 10.3389/fpsyg.2013.00015.
7. **Chiew, K.S.**, Braver, T.S. (2011). Positive affect versus reward: emotional and motivational influences on cognitive control. *Frontiers in Psychology* 2:279. doi: 10.3389/fpsyg.2011.00279.
8. **Chiew, K.S.**, Braver, T.S. (2011). Neural circuitry of emotional and cognitive conflict revealed through facial expressions. *PLoS ONE* 6(3): e17635. doi:10.1371/journal.pone.0017635.
9. Keightley, M.L., **Chiew, K.S.**, Anderson, J.A.E., Grady, C.L. (2011). Neural correlates of recognition memory for emotional faces and scenes. *Social, Cognitive, and Affective Neuroscience*, 6: 24-37.
10. **Chiew, K.S.**, Braver, T.S. (2010). Exploring emotional and cognitive conflict using speeded voluntary facial expressions. *Emotion*, 10: 842-854.

11. Savine, A.C., Beck, S.M., Edwards, B.G., Chiew, K.S., Braver, T.S. (2010). Enhancement of cognitive control by approach and avoidance motivational states. *Cognition & Emotion*, 24: 338-356.
12. Stevens, W.D., Hasher, L., **Chiew, K.S.**, Grady, C.L. (2008). A neural mechanism for memory failure in older adults. *Journal of Neuroscience*, 28: 12820-4.
13. **Chiew, K.S.**, Shepherd, H., Vardy, J., Tattersall, M.H.N., Butow, P.N., Leighl, N.B. (2008). Development and evaluation of a decision aid for patients considering first-line chemotherapy for metastatic breast cancer. *Health Expectations*, 11: 35-45.
14. Keightley, M.L., **Chiew, K.S.**, Winocur, G., Grady, C.L. (2007). Age-related differences in brain activity underlying identification of emotional expressions in faces. *Social, Cognitive, and Affective Neuroscience*, 2: 292-302.
15. Vardy, J., **Chiew, K.S.**, Galica, J., Pond, G.R., Tannock, I.F. (2006). Side effects associated with dexamethasone for prophylaxis of delayed emesis after moderately emetogenic chemotherapy. *British Journal of Cancer*, 94: 1011-5.

Book Chapters & Other Contributions

1. **Chiew, K.S.**, Dickerson, K.C., Adcock, R.A. (in press). What is the added value in studying the brain for understanding emotion? To appear in A.S. Fox, R.C. Lapate, A.J. Shackman, R.J. Davidson (eds.) *The Nature of Emotion: Fundamental Questions (second edition)*. New York: Oxford University Press.
2. **Chiew, K.S.**, Braver, T.S. (2017). Context processing and control in the human brain: from gating models to dual mechanisms. In T. Egner (ed.) *The Wiley Handbook of Cognitive Control*. Chichester, West Sussex: John Wiley & Sons.
3. **Chiew, K.S.**, Braver, T.S. (2011). Monetary incentives improve performance, sometimes: speed and accuracy matter, and so might preparation. Comment on Dambacher et al. *Frontiers in Psychology* 2:325. doi: 10.3389/fpsyg.2011.00325
4. Leighl, N.B., Butow, P.N., Tattersall, M.H.N., Vardy, J., **Chiew, K.**, McJannett, M., Shepherd, H. (2005). *Facing a Treatment Decision: Decision Aid for Patients with Metastatic Breast Cancer Considering Chemotherapy*. Workbook with audio recording produced for patient use at Princess Margaret Hospital, Toronto, Canada, and Royal Prince Alfred Hospital, Sydney, Australia.

Manuscripts Submitted for Publication

1. **Chiew, K.S.**, Hashemi, J., Gans, L.K., Lerebours, L., Clement, N.J., Vu, M.A., Sapiro, G., Heller, N.E., Adcock, R.A. (under revision). Motivational context and individual differences influence exploration and learning of a real-life spatial environment.

2. Horne, A.J., **Chiew, K.S.**, Zhuang, J., George, L.K., Adcock, R.A., Madden, D.J., Chen, N.K., Potter, G.G., Lad, E.G., Cousins, S.W., Lin, F.R., Mamo, S.K., Maciejewski, A.J., Fernandez, X.D., Whitson, H.E. (under revision). Things that make people happy: the role of sensory health, cognition, and neural factors in older adults' perceptions about subjective well-being.
3. **Chiew, K.S.**, Adcock, R.A. (submitted). Motivated memory: integrating cognitive and affective neuroscience. To appear in K.A. Renninger, S. Hidi, (eds.) *The Cambridge Handbook of Motivation and Learning*.

Manuscripts In Preparation

1. **Chiew, K.S.**, Newson, A., Lerebours, L., Gans, L.K., Hashemi, J., Clement, N.J., Vu, M.A., Sapiro, G., Heller, N.E., Adcock, R.A. Human movement, exploration and learning under approach and avoidance motivation in a real-life spatial environment.
2. **Chiew, K.S.**, McClernon, F.J., Adcock, R.A. Network connectivity of human locus coeruleus and ventral tegmental area at rest: evidence from high-resolution fMRI.

Teaching & Mentoring

Ongoing	<p><i>Mentor to undergraduate students/research assistants</i></p> <p><i>Duke University:</i> Clara Colombatto, Daniel O'Connell, Meghan Drastal, Laura Lerebours, Jacqueline Warren, Deeksha Malhotra, Katherine Barnes, Natalia Espinosa</p> <p><i>Washington University:</i> Sarah Schwartz, Shoko Otake, Julie Zhou, Bethany Edwards, Renaldo Gacad, John Allman, Eric Sitterley, Lauren Patrick, Alexandra Haserodt</p>
2011	<p><i>Graduate Assistant</i></p> <p>C-SURE Program, Washington University (summer undergraduate neuroscience research program; 2011)</p>
2010-present	<p><i>Guest Lecturer</i></p> <p>Introduction to Cognitive Neuroscience, Duke University (2015)</p> <p>Research Topics in Behavioral Neuroscience, North Carolina State University (2015)</p> <p>Cognitive Psychology, Washington University (2012)</p> <p>Introduction to Psychology, Washington University (2010, 2012)</p>
2010-2012	<p><i>Teaching Assistant</i></p> <p>Cognitive Psychology, Washington University (2012)</p> <p>Introduction to Psychology, Washington University (2010)</p>

Invited & Symposium Talks

1. **Chiew, K.S.** (2017). Modulators of motivated anticipation: control and memory encoding outcomes. Symposium talk, Annual Meeting of the Association for Psychological Science (Boston, MA).
2. **Chiew, K.S.** (2016). Approach and avoidance motivation effects on human spatial exploration and learning in a real-life environment. Symposium talk, Annual Meeting of the North Carolina Cognition Group (Winston-Salem, NC).
3. **Chiew, K.S.** (2015) Considerations in the investigation of positive emotion and reward influences on cognitive control. Symposium talk, Annual Meeting of the European Society for Cognitive Psychology (Paphos, Cyprus).
4. **Chiew, K.S.** (2013). Emotional and motivational influences on cognitive control. Symposium talk, Annual Meeting of the Association for Psychological Science (Washington, DC).
5. **Chiew, K.S.** (2012). Emotional and motivational influences on cognitive control. Invited talk, Executive Function Seminar Series, University of Colorado at Boulder (Boulder, CO).
6. **Chiew, K.S.** (2012). Emotional and motivational influences on cognitive control. Invited talk, Center for Cognitive Neuroscience, Duke University (Durham, NC).
7. **Chiew, K.S.** (2010). Shifts in cognitive control dynamics during conflict processing under primary motivational incentives. Symposium talk, Show-Me Mental State Conference (St. Louis, MO).

Conference Presentations

1. **Chiew, K.S.**, Newson, A., Lerebours, L., Gans, L.K., Hashemi, J., Clement, N.J., Vu, M.A., Sapiro, G., Heller, N.E., Adcock, R.A. (2016) Approach and avoidance motivation modulate human spatial exploration and learning in a real-life environment. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society (New York, NY).
2. **Chiew, K.S.**, Hashemi, J., Gans, L.K., Lerebours, L., Clement, N.J., Vu, M.A., Sapiro, G., Heller, N.E., Adcock, R.A. (2015). Motivational framing and individual differences modulate exploration behavior and subsequent memory for a museum exhibit on human responses to environmental issues. Poster presented at the Annual Meeting of the Association for Psychological Science (New York, NY).
3. **Chiew, K.S.**, Braver, T.S. (2012, 2013). Positive affect versus reward: comparing emotional and motivational influences on cognitive control. Poster presented at the

Annual Meeting of the Psychonomic Society (Minneapolis, MN) and the Mechanisms of Motivation, Cognition, & Aging Conference (Washington, DC).

4. **Chiew, K.S.**, Gacad, R., Brown, T.B., Braver, T.S. (2012). Pupillometry reveals changes in cognitive control dynamics as a function of motivational incentives. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society (Chicago, IL) and Wisconsin Symposium on Emotion (Madison, WI).
5. **Chiew, K.S.**, Braver, T.S. (2010, 2011). Influence of primary motivational incentives on sequential cognitive control adjustments. Poster presented at the Annual Meeting of the Psychonomic Society (St. Louis, MO) and Conference on Determinants of Executive Function & Dysfunction (Boulder, CO).
6. **Chiew, K.S.**, Braver, T.S. (2010). Selective attention and conflict processing under primary incentives: evidence from the flanker task. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society (Montreal, QC).
7. **Chiew, K.S.**, Braver, T.S. (2009). The role of action in emotional conflict: effects of emotional stimulus and response modality on performance in a controlled performance task. Poster presented at the Washington University Graduate Research Symposium (St. Louis, MO).
8. **Chiew, K.S.**, Edwards, B.G., Braver, T.S. (2009). Neural circuitry underlying emotional vs. cognitive conflict and control: facial expressions as a model behavior. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society (San Francisco, CA).
9. Stevens, W.D., Hasher, L., **Chiew, K.S.**, Grady, C.L. (2008). A neural mechanism for memory failure in older adults. Poster presented at the Annual Meeting of the Organization for Human Brain Mapping (Melbourne, Australia).
10. **Chiew, K.S.**, Heaven, T.J., Braver, T.S. (2008). Facial EMG reveals top-down and bottom-up emotional interference in an adapted context processing task. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society (San Francisco, CA).
11. Keightley, M.L., **Chiew, K.**, Grady, C.L. (2007). Neural correlates of true and false short-term recognition of emotional stimuli. Poster presented at the Annual Meeting of the Organization for Human Brain Mapping (Chicago, IL).
12. Grady, C.L., O'Craven, K., Mondloch, C., Lewis, T., **Chiew, K.**, Maurer, D. (2006). Abnormal extrastriate activity in response to faces, houses, and objects in adults deprived of form vision during infancy. Poster presented at the Annual Meeting of the Organization for Human Brain Mapping (Florence, Italy).
13. **Chiew, K.S.**, Hongwanishkul, D., Happaney, K.R., Hayward, D., Zelazo, P.D. (2006). The U-shaped effect of working memory demand on affective decision-

making as measured by the Iowa Gambling Task. Poster presented at the Annual Meeting of the Cognitive Neuroscience Society (San Francisco, CA).

14. Shepherd, H., **Chiew, K.**, Vardy, J., Butow, P., Tattersall, M., Sullivan, A., Beith, J., Leighl, N.B. (2005). Development and pilot evaluation of a decision aid for hormone receptor negative advanced breast cancer patients considering chemotherapy. Poster presented at the International Shared Decision Making Conference (Ottawa, ON).
15. Vardy, J., **Chiew, K.**, Galica, J., Tannock, I.F. (2005). Side effects associated with use of dexamethasone for prophylaxis of delayed emesis after moderately emetogenic chemotherapy. Poster presented at the Annual Meeting of the American Society of Clinical Oncologists (Orlando, FL) and International Symposium, Multinational Association of Supportive Care in Cancer (Geneva, Switzerland).

Additional Research Experience

- 2005-2007 Research Assistant, Rotman Research Institute (PI: Cheryl L. Grady)
Behavioral and fMRI studies of cognitive aging
- 2004-2005 Research Assistant, Princess Margaret Hospital (PI: Natasha B. Leighl)
Quality-of-life issues and medical decision making in advanced cancer
- 2004-2005 Honors Thesis Student, University of Toronto (PI: Adam K. Anderson)
Neural correlates of mixed feelings
- 2003-2005 Independent Project Student, University of Toronto (PI: Philip D. Zelazo)
Effects of dual-tasking on gambling task performance
- 2003 Research Assistant, Lakehead University (PI: Josephine Tan)
Access and usage of mental health resources in the Canadian Arctic

Professional Activities & Service

Review Editor

Frontiers in Psychology (Emotion Science): 2014-present

Grant Review:

Scientific Research Network on Decision Neuroscience and Aging
Research Foundation Flanders (Belgian Foundation for Scientific Research)
National Science Centre of Poland

Ad hoc Journal Review:

Acta Psychologica | *Applied Cognitive Psychology* | *Biological Psychology* | *Brain Research* | *Cerebral Cortex* | *Cognition & Emotion* | *Cognitive, Affective and Behavioral Neuroscience* | *Cognitive Neurodynamics* | *Emotion* | *Frontiers in Human Neuroscience* | *Frontiers in Psychology* | *Journal of Cognitive Psychology* | *Journal of Experimental Psychology: General* | *Journal of Experimental Psychology: Learning, Memory, & Cognition* | *Journal of Neuroscience* | *NeuroImage* | *PLoS ONE* | *Proceedings of the National Academy of Sciences* | *Psychological Research* | *Psychonomic Bulletin & Review* | *Quarterly Journal of Experimental Psychology*

Professional Memberships:

Cognitive Neuroscience Society | Association for Psychological Science | Society for Neuroscience | Psychonomics Society

Additional Professional Training

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| 2013 | Multi-Level Modeling, Workshop at the Annual Meeting of the Association for Psychological Science |
| 2013 | Introduction to R, Workshop at the Annual Meeting of the Association for Psychological Science |
| 2008 | Science Communication for Neuroscientists, Washington University-St. Louis Science Center Workshop Series (supported by the <i>Cognitive, Computational, & Systems Neuroscience Pathway</i>) |

University and Community Service:

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| Ongoing | <i>Neuroscience public outreach</i>
Judge, North Carolina Science and Engineering Fair (2015)
Duke University Brain Awareness Week (2014-2017)
St. Louis Science Centre, school and community groups (2008-2013) |
| 2016-2017 | Chair, Peer Mentor Program, Duke University Postdocs Association |
| 2011-2013 | Volunteer Teacher, St. Louis Bicycle Works |
| 2010-2012 | Student Representative, Cognitive, Computational and Systems Neuroscience Steering Committee, Washington University |
| 2008-2009 | Graduate Student Brown Bag Coordinator, Psychology Graduate Students' Association, Washington University |