

Kimberly S. Chiew

University of Denver
Department of Psychology
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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 Awarded

2018-2021 National Institutes of Health - NIMH 1R15MH117690-01
Role: Principal Investigator
Project Title: *Beyond Reward: Approach and avoidance motivation generate functional contexts for cognitive control and adaptive memory*
Total Direct Costs: \$300,000 USD

- 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 Elected Fellow, Psychonomic Society
- 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)

* trainee at the University of Denver

Peer-Reviewed Journal Articles

1. Martins-Klein, B., Alves, L.A.*, **Chiew, K.S.** (in press). Proactive versus reactive emotion regulation: a dual-mechanisms perspective. *Emotion*.
2. Stanek, J.K., Dickerson, K.C., **Chiew, K.S.**, Clement, N.J., Adcock, R.A. (2019). Expected reward value and reward uncertainty have temporally dissociable effects on memory formation. *Journal of Cognitive Neuroscience*.
3. 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. (2018). Relating sensory, cognitive, and neural factors to older persons' perceptions about happiness: an exploratory study. *Journal of Aging Research*. doi: 10.1155/2018/4930385
4. **Chiew, K.S.**, Hashemi, J., Gans, L.K., Lerebours, L., Clement, N.J., Vu, M.A., Sapiro, G., Heller, N.E., Adcock, R.A. (2018). Motivational valence alters memory formation without altering exploration of a real-life spatial environment. *PLoS ONE*. doi: 10.1371/journal.pone.0193506.
5. **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.
6. **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.
7. 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.
8. **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.

9. 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.
10. **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.
11. **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.
12. **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.
13. 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.
14. **Chiew, K.S.**, Braver, T.S. (2010). Exploring emotional and cognitive conflict using speeded voluntary facial expressions. *Emotion*, 10: 842-854.
15. 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.
16. 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.
17. **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.
18. 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.
19. 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.**, Adcock, R.A. (2019). Motivated memory: integrating cognitive and affective neuroscience. In K.A. Renninger, S. Hidi, (eds.) *Cambridge Handbook of Motivation and Learning*. Cambridge: Cambridge University Press.
2. **Chiew, K.S.**, Dickerson, K.C., Adcock, R.A. (2018). What is the added value in studying the brain for understanding emotion? 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.
3. **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.
4. **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
5. 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.

Teaching & Mentoring

Instructor (Department of Psychology, University of Denver)

Proseminar in Affective Neuroscience (graduate)
Introduction to Cognitive Neuroscience (undergraduate)
Proseminar in Cognitive Neuroscience (graduate)

Guest Lecturer

2015	Introduction to Cognitive Neuroscience <i>Department of Psychology & Neuroscience, Duke University</i>
2015	Research Topics in Behavioral Neuroscience <i>Department of Biology, North Carolina State University</i>
2012	Cognitive Psychology <i>Department of Psychology, Washington University</i>
2010, 2012	Introduction to Psychology <i>Department of Psychology, Washington University</i>

Teaching Assistant

- 2012 Cognitive Psychology
Department of Psychology, Washington University
- 2010 Introduction to Psychology
Department of Psychology, Washington University

Program Assistant

- 2011 C-SURE Program
(summer undergraduate neuroscience research program)
*Departments of Psychology, Neuroscience, and Biomedical
Engineering, Washington University*

Graduate Student Mentoring

- University of Denver Lyneé Alves (primary advisor; 2018-present)
Eric Elias (committee member; 2018-present)
Chris Capistrano (committee member; 2018-present)

Undergraduate Student Research Mentoring

- University of Denver Alex Boisvert, Brynn Dominice, Madison Eitniear, Avery
Gholston, Bailey Harris, Natalie Platt, Natalie Shaffer, Addison
Thomas, Cory Vandenberg
- Duke University Clara Colombatto, Daniel O'Connell, Meghan Drastal, Laura
Lerebours, Jacqueline Warren, Deeksha Malhotra, Katherine
Barnes, Natalia Espinosa
- Washington University Sarah Schwartz, Shoko Otake, Julie Zhou, Bethany Edwards,
Renaldo Gacad, John Allman, Eric Sitterley, Lauren Patrick,
Alexandra Haserodt

Invited & Symposium Talks

1. **Chiew, K.S.** (2018). Locomotive and exploratory contributions to motivated memory encoding in a complex real-life environment. Symposium talk presented at the Annual Meeting of the American Psychological Association (San Francisco, CA).
2. **Chiew, K.S.** (2018). Motivation-cognition interactions: timing, context, and implications for dopamine. Invited talk, Department of Psychology, Wake Forest University (Winston-Salem, NC).

3. **Chiew, K.S.** (2018). Motivated memory: what can we learn from cognitive neuroscience? Workshop talk presented at the Annual Meeting of the American Educational Research Association (New York, NY).
4. **Chiew, K.S.** (2018). Motivation-cognition interactions: timing, context, and implications for dopamine. Invited talk, Neuroscience Seminar Series, University of Wyoming (Laramie, WY).
5. **Chiew, K.S.** (2017). Motivation-cognition interactions: evidence from inside and outside the laboratory. Invited talk, Institute for Cognitive Science Colloquium Series, University of Colorado at Boulder (Boulder, CO).
6. **Chiew, K.S.** (2017). Motivated autobiographical memory: effects of valence and surprise on memory for the 2016 U.S. presidential election. Symposium talk, Annual Meeting of the Psychonomic Society (Vancouver, BC).
7. **Chiew, K.S.** (2017). Get ready: Timing and anticipation matter in motivation-cognition interactions. Invited talk, Developmental Brown Bag Series, Department of Psychology, University of Denver (Denver, CO).
8. **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).
9. **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).
10. **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).
11. **Chiew, K.S.** (2013). Emotional and motivational influences on cognitive control. Symposium talk, Annual Meeting of the Association for Psychological Science (Washington, DC).
12. **Chiew, K.S.** (2012). Emotional and motivational influences on cognitive control. Invited talk, Executive Function Seminar Series, University of Colorado at Boulder (Boulder, CO).
13. **Chiew, K.S.** (2012). Emotional and motivational influences on cognitive control. Invited talk, Center for Cognitive Neuroscience, Duke University (Durham, NC).
14. **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).

Selected Conference Posters

1. Alves, L.A.*; Egner, T., Adcock, R.A., **Chiew, K.S.** (2019). Motivational effects on item and source memory encoding during cognitive control performance. Poster presented at the Annual Meeting of the Society for Affective Science (Boston, MA).
2. **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).
3. **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).
4. **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).
5. **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).
6. **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).
7. **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).
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. **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).

10. **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).

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 to and usage of mental health resources in the Canadian Arctic

Professional Activities & Service

Review Editor

Frontiers in Psychology (Emotion Science)

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 | Cognition & Emotion | Collabra: Psychology | 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: Human Perception & Performance | Journal of Experimental Psychology: Learning, Memory, & Cognition | Journal of Neuroscience | Motivation & Emotion | NeuroImage | Neuropsychologia | PLoS ONE | Proceedings of the National Academy of

*Sciences | Psychological Research | Psychonomic Bulletin & Review | Psychophysiology
| Quarterly Journal of Experimental Psychology*

Professional Memberships:

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

Additional Professional Training

- 2013 Multi-Level Modeling, 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
Cognitive, Computational, & Systems Neuroscience Pathway)

University and Community Service:

University of Denver, Department of Psychology

- 2018-2019 Inclusive Excellence Coordinator
Facilitator, Gender Issues in Science Discussion Group
Planning Committee, Developmental Cognitive Neuroscience
Research Day
Invited outreach speaker, Denver Museum of Nature & Science
- 2017-2018 Faculty Search Committee (Affect-Social-Cognitive)
Grant Writing Resources Working Group
Founder, Gender Issues in Science Discussion Group

Duke University

- 2016-2017 Chair, Peer Mentor Program, Duke University Postdocs
Association
- 2014-2017 Duke University Brain Awareness Week
- 2015 Judge, North Carolina Science and Engineering Fair

Washington University

- 2008-2013 Neuroscience public outreach with St. Louis Science Centre, school
and community groups
- 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