

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

2020-2022 Brain & Behavior Foundation – NARSAD Young Investigator Grant
Role: Principal Investigator
Project Title: *Investigating Temporal Dynamics of Motivation-Cognitive Control Interactions in Children with ADHD Using High-Resolution Pupillometry*
Total Direct Costs: \$69,988 USD

- 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

- 2019 Association for Psychological Science Rising Star Award
- 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 Ontario Graduate Scholarship (declined)

Publications

(Google Scholar h-index: 14)

* *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*. doi: 10.1162/jocn_a_01411
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*.
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)

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

Guest Lecturer

2018, 2019	Cognitive Neuroscience Seminar <i>Department of Psychology, University of Denver</i>
2018, 2019	Junior Honors Class <i>Department of Psychology, University of Denver</i>
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
Department of Psychology, Washington University

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

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; 2018-2019)
Chris Capistrano (committee member; 2018-present)

Undergraduate Student Research Mentoring

University of Denver Alex Boisvert, Brynn Dominice, Madison Eitniear, Avery Gholston, Bailey Harris, Romel Minassie, Megan McCaughey, Meghan Olt, 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, Sujal Manohar

Washington University Sarah Schwartz, Shoko Otake, Julie Zhou, Bethany Edwards, Renaldo Gacad, John Allman, Eric Sitterley, Lauren Patrick, Alexandra Haserodt

Invited Talks

June 2020	Teaching Faculty, Kavli Summer Institute in Cognitive Neuroscience, University of California-Santa Barbara (topic: <i>Motivated Cognition: Environmental, Neural, and Computational Bases</i>)
October 2019	Neuroscience Seminar Series, Colorado State University
June 2019	Denver fMRI Analytic Workgroup, University of Denver
April 2019	Women in Affective Science Institute, University of Colorado-Boulder
April 2018	Department of Psychology, Wake Forest University
April 2018	Duke University Postdocs Association, Duke University
February 2018	Neuroscience Seminar Series, University of Wyoming
December 2017	Institute for Cognitive Science Colloquium Series, University of Colorado-Boulder
October 2017	Developmental Brown Bag, Department of Psychology, University of Denver
April 2017	Developmental Psychology Seminar Series, Department of Psychology & Neuroscience, Duke University

Conference 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). 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).
3. **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).
4. **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).
5. **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).
6. **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).

7. **Chiew, K.S.** (2013). Emotional and motivational influences on cognitive control. Symposium talk, Annual Meeting of the Association for Psychological Science (Washington, DC).
8. **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. Harris, B.B.*, Adcock, R.A., **Chiew, K.S.** (2020). Elation and devastation: Relationships between media consumption, political affiliation, and emotional responses to the 2016 U.S. presidential election. Abstract submitted to the Annual Meeting of the Rocky Mountain Psychological Association (Denver, CO) and Society for Affective Science (San Francisco, CA).
2. Alves, L.A.*, Eegner, 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 Rocky Mountain Psychological Association (Denver, CO) and Society for Affective Science (Boston, MA).
3. Gholston, A.S.*, **Chiew, K.S.** (2019). Sustained and transient reward effects on item and associative memory. Poster presented at the Annual Meeting of the Rocky Mountain Psychological Association (Denver, CO) and the Annual DU Research & Scholarship Showcase (Denver, CO).
4. **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).
5. **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).
6. **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).
7. **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).

8. **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).
9. **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).
10. **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).
11. **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).
12. **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).

Predocutorial Research Experience

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

Professional Activities & Service

Grant Review:

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

Ad hoc Journal Review:

Acta Psychologica | *Applied Cognitive Psychology* | *Biological Psychology* | *Brain Research* | *Cerebral Cortex* | *Cognition* | *Cognition & Emotion* | *Cognitive, Affective and Behavioral Neuroscience* | *Cognitive Neurodynamics* | *Collabra: Psychology* | *Emotion* | *Frontiers in Human Neuroscience* | *Frontiers in Psychology* | *International Journal of Psychophysiology* | *Journal of Cognitive Psychology* | *Journal of Experimental Psychology: General* | *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* | *Scientific Reports* | *WIREs: Cognitive Science*

Professional Memberships:

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

Selected Additional Professional Training

2013 Multi-Level Modeling, Workshop at the Annual Meeting of the Association of 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

2019-2020 Inclusive Excellence Coordinator
Facilitator, Gender Issues in Science Discussion Group
Planning Committee, Developmental Cognitive Neuroscience Research Night
Graduate Student Inquiry Working Group
Department Compositional Diversity Working Group

2018-2019 Inclusive Excellence Coordinator
Facilitator, Gender Issues in Science Discussion Group
Planning Committee, Developmental Cognitive Neuroscience
Research Night
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