

Hiu Mei (Doris) Chow, PhD

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Education

PhD (Developmental and Brain Sciences) The University of Massachusetts, Boston, USA (Dept. Psychology)	2018
Master of Philosophy (Cognitive Psychology) The University of Hong Kong, Hong Kong (Dept. Psychology)	2013
Bachelor of Social Sciences (Psychology) The University of Hong Kong, Hong Kong (Dept. Psychology)	2010

Academic Appointments & Research Experience

Assistant Professor , St. Thomas University, Fredericton, New Brunswick, Canada (Dept. Psychology)	2022 – present
Postdoctoral Research Fellow , The University of British Columbia, Vancouver, Canada (Dept. Ophthalmology and Visual Sciences)	2018 – 2022
PhD Student , The University of Massachusetts, Boston, USA (Dept. Psychology)	2013 – 2018
Research Intern , NTT Communication Science Laboratories, Japan	2013
Master's Student , The University of Hong Kong, Hong Kong (Dept. Psychology)	2011 – 2013
Research Assistant , The University of Hong Kong, Hong Kong (Dept. Psychology)	2010 – 2011
Undergraduate Honour's Thesis Student , The University of Hong Kong, Hong Kong (Dept. Psychology)	2009 – 2010

Grants, Fellowships & Awards

Discovery Grant (CAD 29000 p.a.) National Sciences and Engineering Research Council of Canada Competitive Tri-Council research grant to support my research program titled "Influences of crossmodal correspondences on perception"	2024 – 2029
Discovery Launch Supplement (CAD 12500) National Sciences and Engineering Research Council of Canada Competitive Tri-Council research grant to support my research program titled "Influences of crossmodal correspondences on perception"	2024 – 2025
Conference Travel Grant (CAD 2000) St. Thomas University Competitive university-internal travel grant to attend and present my work at the 46 th European Conference on Visual Perception, Aberdeen, Scotland	2024

Nation-wide Cooperative Research Project Grant (~ CAD 4000 p.a.) Tohoku University Research Institute of Electrical Communication Competitive university-internal research grant to support my research collaboration titled “Multisensory influences on visual stability perception” (Co-PIs: Chia-huei Tseng & Satoshi Shioiri)	2023 – 2025
JOBS Grant (~ CAD 1500 p.a.) St. Thomas University Competitive university-internal research grant to support the hiring of student research assistants for my research program (×2)	2023 – 2025
Harrison McCain Research Grant (CAD 7000) St. Thomas University Competitive university-internal research grant to support my research program titled “Oculomotor inhibition as a window of crossmodal attention in healthy adults”	2022 – 2024
Harrison McCain Student Research Internship Grants (CAD 6500 total) St. Thomas University Competitive university-internal research grant to support the hiring of student research assistants for my research program titled “Oculomotor inhibition as a window of crossmodal attention in healthy adults” (×2) “Influences of crossmodal correspondences on perception” (×1)	2022 – 2024
Faculty Experiential Learning Grant (CAD 1000) St. Thomas University University-internal fund to support the development and implementation of class-based experiential learning activities in my Perception course	2022 – 2023
Postdoctoral Fellowship (CAD 45000 p.a.) Canadian Institutes of Health Research Competitive Tri-Council award to support my post-doctoral research entitled “Eye movements as a sensitive indicator of motion perception in healthy older adults and patients with ophthalmic diseases”	2020 – 2023
Research Trainee Award (CAD 41500 p.a.) or Top-Up (CAD 7000 p.a.) Michael Smith Foundation for Health Research Competitive university-external award to support my post-doctoral research entitled “Studying motion processing with eye movements in healthy older adults and patients with ophthalmic diseases”	2019 – 2022
FoVea Networking Travel Award (USD 1500) Vision Science Society Competitive university-external award to support conference attendance in 2020/21 in recognition of my potential as a female vision scientist	2020
Student Travel Award (USD 1000) University of Massachusetts Boston Office of Global Programs Competitive university-internal travel/conference award to present my dissertation work at the International Multidisciplinary Spring School “Rethinking the Senses” in Dubrovnik, Croatia	2017
Craig R. Bollinger Memorial Research Grant (USD 1500) University of Massachusetts Boston Graduate Student Assembly Competitive university-internal award to support my research titled “Finding the sweet-spot for multisensory integration during infancy”	2016
Invited Speaker Travel Award (JPY 160,000, ~USD 1500) 10th Asia-Pacific Conference on Vision Conference travel award to support the presentation of my research at the Asia Pacific Conference on Vision held in Takamatsu, Japan	2014

Student Travel Award (USD 800) University of Massachusetts Boston Office of International and Transnational Affairs Competitive university-internal award to support travel to present my work at the International Congress on Infant Studies in Berlin, Germany	2014
Joseph P. Healey Research Grant Program (USD 7500) University of Massachusetts Boston Competitive university-internal research grant to support my research titled “How does attention make a sound louder: Using behavioral and neuronal imaging tools to reveal mechanisms of auditory selective attention”	2014 – 2015
Entrance Fellowship (USD 2000) University of Massachusetts Boston Competitive university-internal fellowship recognizing excellent academic performance, in addition to the regular postgraduate scholarship	2013
University Postgraduate Fellowship (HK\$70000, ~USD 9000) University of Hong Kong, Hong Kong (Declined) Competitive university-internal fellowship recognizing excellent academic performance, in addition to the regular postgraduate scholarship	2013 – 2014
Student Travel Award (JPY 50000, ~ USD 450) 12th International Multisensory Research Forum Conference travel award recognizing my work as one of the ten best student papers selected by the abstract review committee	2011
Dean’s Honours List University of Hong Kong, Hong Kong In recognition of outstanding academic achievement (top 10%) in the year	2009 – 2010
HKUWW Scholarship (HKD 6000, ~ USD 750) University of Hong Kong, Hong Kong Competitive university-internal award to support travel/living for a term of academic exchange at Seoul National University, Seoul, South Korea	2009
HKU Foundation Entrance Scholarship (HKD 6000, ~ USD 750) University of Hong Kong, Hong Kong In recognition of outstanding academic achievement (Early Admission Scheme)	2007 – 2008

Teaching Experience & Training

St. Thomas University, Canada

Instructor of Record (undergraduate) 2022 – present

- Introduction to Psychology I (2022 S1, 2023 S1 × 2, 2024 S1 × 2, 2025 S1 × 2)
- Cognitive & Social Development (2022 S1, 2023 S1, 2025 S2)
- Introduction to Research Methods (2022 S2, 2023 S2, 2024 S2, 2025 S2)
- Perception (2022 S2, 2023 S2)
- Visual Perception (2024 S2)

Supervising Course Assistants (undergraduate) 2023 – present

Timothy Bu (2025), Artie McLaughlin (2024), Montse Duron (2023)

The University of New Brunswick, Canada

Guest Lecturer, Graduate Seminar in Principles of Psychological Science (graduate) 2024

The University of British Columbia, Canada

Instructor of Record, Seminar in Cognitive Systems (undergraduate) (2021 T1, T2) 2021 – 2022

Guest Lecturer, Graduate Seminar in Neuroscience (team-taught, graduate) 2020, 2021

Guest Lecturer, Seminar in Cognitive Systems (undergraduate) 2019

Participant, CTLT educator training workshops including:

Developing your skills as a Peer Reviewer of Teaching 2019

Postdoc Teaching Internship 2019

Instructional Skill Workshop 2018

Others: Creating and Sharing Instructional Videos, Virtual Facilitation 101: Fostering Connection and Building Space, Open Education Resources 2019 – 2020

The University of Massachusetts Boston, USA

Instructor of Record, Sensation & Perception (undergraduate) (2016 S1, Su) 2016 – 2017

Guest Lecturer, Introduction to Behavioral Research (undergraduate) 2016

Guest Lecturer, Cognitive Development (undergraduate) 2014

Teaching Assistant, Experimental Methods: Physiological (undergraduate) 2018

Teaching Assistant, Experimental Methods: Social (undergraduate) 2018

Teaching Assistant, Statistics (undergraduate) 2014 – 2015

Teaching Assistant, Learning & Memory (undergraduate) 2013

Participant, educator training workshops including:

Psychology Graduate Teaching Seminar 2016

Others: Internationalizing your teaching, Teaching linguistically diverse learners: Approaches and methods 2016 – 2018

The University of Hong Kong, Hong Kong

Teaching Assistant, Introduction to Psychology 2012

Teaching Assistant, Cognitive Psychology 2012

Participant, Certificate of Teaching and Learning in Higher Education 2011

Research Interests

General Areas: Multisensory Perception, Life-span Development, Eye Movements

Current Topics (selected)

- Eye movements as a sensitive indicator of multisensory processing
- The role of eye movements in perception
- The influence of life-span changes on perception and eye movements

Techniques: Behavioural Psychophysics, Eye-Tracking, EEG (steady-state evoked potentials)

Publications

22 publications (11 first-authored; 1 senior-authored); * indicates mentees, # indicates co-first, † indicates co-senior)

22. **Chow, H.M.**, Ma, Y.*, & Tseng, C.H. (2024). Social and communicative not a pre-requisite: Preverbal infants learn an abstract rule only from congruent audio-visual dynamic pitch-height patterns. *Journal of Experimental Child Psychology*, 248, 106046. (online ahead of print) <https://doi.org/10.1016/j.jecp.2024.106046>
21. Kreyenmeier, P.*, Bhuiyan, I.*, Gian, M.*, **Chow, H.M.**†, & Sperling, M.† (2024). Smooth pursuit inhibition reveals mechanisms of multisensory integration for fast sensorimotor control. *Journal of Vision*, 24, 3. <https://doi.org/10.1167/jov.24.4.3>
20. Cao, S., Kelly, J., Nguyen, C.*, **Chow, H.M.**, Leonardo, B.*, Sabov, A.*, & Ciaramitaro, V.M. (2024). Visual experience increases children's use of efficient haptic exploration strategies in audio-tactile sound-shape correspondences. *Journal of Experimental Child Psychology*, 241, 105856. (online ahead of print) <https://doi.org/10.1016/j.jecp.2023.105856>
19. **Chow, H.M.** #, Briggs, D. #*, & Ciaramitaro, V.M. (2023). Does task-irrelevant brightness modulation affect auditory contrast processing? Exploring the interplay between temporal synchrony and stimulus salience. *Multisensory Research*, 36(5), 449-475. <https://doi.org/10.1163/22134808-bja10102>
18. **Chow, H.M.**, & Sperling, M. (2023). Eye movements during optic flow perception. *Vision Research*, 204, 108164. <https://doi.org/10.1016/j.visres.2022.108164>
17. Tseng, C.#, **Chow, H.M.** #, Spillmann, L., Oxner, M., & Sakurai, K. (2022). Body pitch together with translational body motion biases the subjective haptic vertical. *Multisensory Research*, 36(1), 1-29. <https://doi.org/10.1163/22134808-bja10086>
16. Hart, B.M., ... **Chow, H.M.**, ... et al., (2022). Neuromatch Academy: a 3-week, online summer school in computational neuroscience. *Journal of Open Source Education*, 5(49), 118, <https://doi.org/10.21105/jose.00118>
15. Tseng, C.H., **Chow, H.M.**, Liang, J., Shiori, S., & Chen, C.C. (2021) Collinear search impairment is luminance contrast invariant. *Scientific Reports*, 11, article 11507.
14. **Chow, H.M.**, Harris, D.*, Eid, S.*, & Ciaramitaro, V.M. (2021) The feeling of 'baba'? Comparing developmental changes in sound-shape correspondence for audio-visual and audio-tactile stimuli. *Journal of Experimental Child Psychology*, 209, 105167 (online ahead of print)
13. **Chow, H.M.**, Knöll, J., Madsen, M.*, & Sperling, M. (2021). Look where you go: characterizing eye movements towards optic flow. *Journal of Vision*, 21(3), article 19.
12. **Chow, H.M.**, Leviyah, X.*, & Ciaramitaro, V.M. (2020). Individual differences in multisensory interactions: The influence of temporal phase coherence and auditory salience on visual contrast sensitivity. *Vision*, 4(1), 12.
11. **Chow, H.M.**, & Ciaramitaro, V.M. (2019). What makes a shape 'baba'? The shape features prioritized in sound-shape correspondence change with development. *Journal of Experimental Child Psychology*, 179, 73-89.
10. Ho, H-N., **Chow, H.M.**, Tsunokake, S., & Roseboom, W. (2019). A sensory processing hierarchy for thermal touch: Thermal adaptation occurs prior to thermal-tactile integration. *IEEE Transactions on Haptics*, 12(4), 594-603.
9. Deng, X., Cheng, C., **Chow, H.M.**, & Ding, X. (2019). Prefer feeding bad? Subcultural differences in emotional preferences between Han Chinese and Mongolian Chinese. *International Journal of Psychology*, 54(3), 333-341.

8. Sperling, M., & **Chow, H.M.** (2018). Rapid assessment of natural visual motion integration across primate species (commentary). *Proceedings of National Academy of Sciences USA*, 115(4), 11112-11114.
7. Tseng, C.H., **Chow, H.M.**, Ma, Y.K.*, & Jie, D. (2018). Preverbal infants utilize cross-modal semantic congruency in artificial grammar acquisition. *Scientific Reports*, 8, 12707.
6. Ciaramitaro, V.M., **Chow, H.M.**, & Eglinton, L. (2017). Crossmodal attention influences auditory contrast sensitivity: Decreasing visual load improves auditory thresholds for amplitude and frequency modulated sounds. *Journal of Vision*, 17(3), article 20.
5. **Chow, H.M.**, Jingling, L. Tseng, C.H. (2016). Eye of origin guides attention away: An ocular singleton column impairs visual search like a collinear column. *Journal of Vision*, 16, 12.
4. Tsui, A.S.M., Ma, Y.K.*, Ho, S.Y., **Chow, H.M.**, & Tseng, C.H. (2016). Bimodal emotion congruency is critical to preverbal infants' abstract rule learning. *Developmental Science*, 19(3), 382-393.
3. **Chow, H.M.**, & Tseng, C.H. (2015). Invisible collinear structures impair search. *Consciousness & Cognition*, 31, 46-59.
2. **Chow, H.M.**, Jingling, L. & Tseng, C.H. (2013). Collinear integration affects visual search at V1. *Journal of Vision*, 13(10), article 24.
1. Tseng, C.H., **Chow, H.M.**, & Spillmann, L. (2013). Falling skyscrapers: When cross-modality perception of verticality fails. *Psychological Science*, 24(7), 1341-1347.

In Progress (available upon request)

- Woodward, G.*, & **Chow, H.M.** (in-principle acceptance). Characterizing pursuit inhibition to multimodal stimuli: The effect of temporal synchrony and task relevance (Stage 1 Registered Report). *eNeuro*
- Bunin, S.*, & **Chow, H.M.** (in-principle acceptance). Investigating cognitive modulation of fast oculomotor inhibition: Does working memory load modulate smooth pursuit inhibition? (Stage 1 Registered Report). *Collabra: Psychology*
- Chow, H.M.**, Ma, J.*, Shioiri, S., & Tseng, C.H. (in prep.). Examining the auditory blanking effect: Does a brief sound gap affect saccadic suppression of visual displacement?

Presentations & Contributed Presentations

8 conference talks; 20 conference poster presentations; 14 university presentations; 14 community presentations

(* indicates mentees, # indicates co-presenters, ^P indicates peer-reviewed presentations)

Conference Talks ^P

- Chow, H.M.**, Gale, J., & Santacruz, C. (2024). Connecting learning in university classrooms and science centers with perceptual illusions. *Annual AAU (Association of Atlantic Universities) Teaching Showcase* (Talk)
- Chow, H.M.**, Ma, J.*, Shioiri, S., & Tseng, C.H. (2024). The effect of sound on visual stability perception during saccades. *46th European Conference on Visual Perception*, Aberdeen, Scotland (Platform talk)
- Chow, H.M.**, Spillmann, L., Oxner, M., Sakurai, K., & Tseng, C.H. (2021). A large body pitch combined with translational motion induces a deviation of subjective haptic vertical in a natural environment. *Vestibular-Oriented Research Virtual Meeting* (Lightning virtual talk)
- Chow, H.M.**, & Ciaramitaro, V.M. (2018). How does a sound look and feel? Comparing the development of audio-visual and audio-tactile sound-shape correspondence. *14th Asia-Pacific Conference on Vision*, Hangzhou, China (Symposium talk)
- Chow, H.M.**, Tsui, A.S.M., Ma, Y.K., Yat, M.Y., & Tseng, C.H. (2014). Infant cross-modal rule learning. *2014 Asia Pacific Conference on Vision*, Japan (Symposium talk)
- Chow, H.M.**, Oxner, M., Zhong, C.*, Spillmann, L., & Tseng, C.H. (2012). Vision and body posture jointly contribute to a new real-life illusion of building tilt on the Hong Kong Peak Tram. *The 16th Conference on Attention and Perception: Perceptual Organization and Grouping*, Taiwan (Platform talk)
- Chow, H.M.**, Chiu, P.-H., Tseng, C.H., & Spillmann, L. (2011). A multi-sensory illusion: Hong Kong Peak Tram Illusion (II) – Subjective vertical. *i-Perception*, 2(8), 892 (Platform talk)
- Chow, H.M.**, Tsui, G., & Tseng, C.H. (2011). Preverbal infants use object features and motion cues in social learning. *i-Perception*, 2(4), 233. (Platform talk)

Conference Poster Presentations ^P

- Chow, H.M.**, Ma, J.*, Shioiri, S. & Tseng, C.H. (2025). Audio blanking effect of saccadic suppression of target displacement. *2025 Annual Meeting of the Vision Sciences Society*, St. Pete Beach, USA
- Chow, H.M.**, & Spering, M. (2022). The influence of eye movements on optic flow perception. *Journal of Vision*, 22, 4300.
- Kreyenmeier, P.*, Bhuiyan, I.*, **Chow, H.M.**, & Spering, M. (2022). Fast smooth pursuit inhibition reveals mechanisms of multisensory integration. *Journal of Vision*, 22, 4061.
- Chow, H.M.**, Spillmann, L., Oxner, M., Sakurai, K., & Tseng, C.H. (2021). A large body pitch combined with translational motion induces a deviation of subjective haptic vertical in a natural environment. *Vestibular-Oriented Research Virtual Meeting* (virtual)
- Chow, H.M.**, Knöll, J., Madsen, M.*, & Spering, M. (2020). Look where you go: Humans intuitively track heading direction changes with their eyes. *Journal of Vision*, 20, 443. (virtual)
- Chow, H.M.**, Morina, E.*, & Ciaramitaro, V.M. (withdrawn). Does a relevant sound enhance the neural representation of a visual object? *OPAM (Object Perception, visual Attention, and visual Memory) Conference*, Montreal, Canada
- Chow, H.M.**, & Spering, M. (2019). Perceptual and oculomotor sensitivity to the focus of expansion of optic flow. *2019 Gordon Research Conference on Eye Movements*, Maine, USA (non-peer-reviewed)
- Chow, H.M.**, & Spering, M. (2019). Perceptual and oculomotor sensitivity to the focus of expansion of optic flow. *2019 Gordon Research Seminar on Eye Movements*, Maine, USA (non-peer-reviewed)
- Chow, H.M.**, & Ciaramitaro, V.M. (2018). Endogenous attention enhances neuronal signature of audio-visual sound-shape correspondence. *International Multisensory Research Forum*, Toronto, Canada
- Ciaramitaro, V.M., **Chow, H.M.**, & Silva, N.* (2018). Musical expertise weakens the cost of dividing attention between vision and audition. *International Multisensory Research Forum*, Toronto, Canada
- Chow, H.M.**, & Ciaramitaro, V.M. (2018). Musical expertise modulates the cost of crossmodal divided attention between vision and audition in behavior but not in tonic pupil dilation. *Journal of Vision*, 18, 486.
- Chow, H.M.**, Leonardo, B.*, Sabov, A.*, & Ciaramitaro, V.M. (2018). Is a round shape integrated with a /bouba/ sound? Enhanced neuronal signals at the intermodulation frequencies of congruent audio-visual stimuli. *25th Annual meeting of Cognitive Neuroscience Society*, Boston, USA
- Chow, H.M.**, & Ciaramitaro, V.M. (2017). What makes a shape /baba/ to a child versus an adult? Changing contributions from shape contour, protrusion number, and protrusion size in sound-shape correspondence. *International Multisensory Research Forum*, Nashville, USA
- Briggs, D.M.*, **Chow, H.M.**, & Ciaramitaro, V.M. (2017). The interdependence of visual salience and audiovisual synchrony on auditory contrast detection. *International Multisensory Research Forum*, Nashville, USA
- Leonardo, B.*, **Chow, H.M.**, & Ciaramitaro, V.M. (2017). Do global or local features make an abstract shape appear more /Bouba/? *International Multisensory Research Forum*, Nashville, USA
- Ciaramitaro, V.M., **Chow, H.M.**, & Eglington, L.G. (2017). Crossmodal attention alters contrast sensitivity for amplitude and frequency modulated sounds via a mechanism of contrast gain. *International Multisensory Research Forum*, Nashville, USA
- Chow, H.M.**, Harris, D.A.*, Eid, S.*, & Ciaramitaro, V.M. (2016). Early experience alters the developmental trajectory of visual, auditory and tactile sound-shape correspondences. *Journal of Vision*, 16, 1193.
- Guillory, S.B. #, **Chow, H.M.** #, & Ciaramitaro, V.M. (2016). Matching a shape with a sound: Does sound-shape correspondence modulate a neuronal signature of visual shape processing? *23rd Annual Meeting of Cognitive Neuroscience Society*, New York, USA
- Tseng, C.H., **Chow, H.M.**, & Jingling, L. (2015). Eye-of-origin guides attention away: Search disadvantage by ocular singletons. *38th European Conference on Visual Perception*, Liverpool.
- Yeung, Y.S.*, **Chow, H.M.**, & Tseng, C.H. (2015). Information of ocular origin impairs target discrimination during visual search. *2015 Asia-Pacific Conference on Vision*, Singapore.
- Chow, H.M.**, & Ciaramitaro, V.M. (2015). Salience affects crossmodal interactions (II): Are visual and auditory salience equally effective at switching crossmodal interactions from beneficial to detrimental? *International Multisensory Research Forum*, Pisa, Italy.
- Ciaramitaro, V.M., & **Chow, H.M.** (2015). Salience affects crossmodal interactions (I): Auditory salience switches crossmodal interactions from beneficial to detrimental. *International Multisensory Research Forum*, Pisa, Italy.
- Ciaramitaro, V.M., **Chow, H.M.**, & Williams, A. (2015). In-phase is not always best: Auditory salience reverses crossmodal influences on visual detectability. *Journal of Vision*, 15, 717.
- Tseng, C.H., **Chow, H.M.**, Tsui, A.S.M., Ma, Y.K., & Yat, D. (2014). Cross-modal integration limits preverbal infant abstract rule learning. *37th European Conference on Visual Perception*, Belgrade, Serbia.
- Yeung, Y.S.*, Lee, M.*, **Chow, H.M.**, Tseng, C.H. (2014). Does ocular origin of stimuli always help you find a target? It depends!. *2014 Asia Pacific Conference on Vision*, Japan.

- Lee, M.*, Yeung, Y.S.*, **Chow, H.M.**, Tseng, C.H. (2014). Eye of origin information does not always facilitate target search. *2014 Asia Pacific Conference on Vision*, Japan.
- Tseng, C.H., **Chow, H.M.**, Oxner, M., & Spillmann, L. (2014). Tilted body or tilted world? A field study of verticality misperception on a moving mountain tram. *Asia Pacific Conference on Vision*, Japan
- Chow, H.M.**, Ciaramitaro, V.M., & Dobkins, K.R. (2014). A salient auditory stimulus improves visual contrast sensitivity but does not improve detection speed in 3- and 6-month-olds. *International Conference on Infant Studies*, Berlin, Germany.
- Chow, H.M.**, & Ciaramitaro, V.M. (2014). What you hear is what you see: Non-spatial visual information can hinder auditory detectability early in development. *Journal of Vision*, 14, 431.
- Tseng, C.H., & **Chow, H.M.** (2014). Onset target escapes the background perceptual grouping. *Journal of Vision*, 14, 343.
- Ciaramitaro, V.C., **Chow, H.M.**, & Boynton, G. (2014). Within- and cross-modal attention modulate unattended visual information as revealed by the strength of visual motion aftereffects across visual contrast. *Annual Meeting of Cognitive Neuroscience Society*, Boston, USA
- Tseng, C.H. & **Chow, H.M.** (2013). Invisible collinear integration impairs visual search. *Asia Pacific Conference on Vision*, Suzhou, China.
- Chow, H.M.**, & Tseng, C.H. (2013). Collinear contour integration impairs visual search before binocular fusion. *Journal of Vision*, 13(9), 1245.
- Tseng, C.H., Ma, Y.K., & **Chow, H.M.** (2013). Bimodal Affective Stimuli Do Not Always Enhance Infant's Rule Learning: Congruency and relevance also matter. *Journal of Vision*, 13(9), 738.
- Chow, H.M.**, Chen, S.J.C.*, Tsui, G., Chiu, P.H., & Tseng, C.H. (2012). 10-month-old infants prefer comforters, not helpers. *The 34th Annual Meeting of the Cognitive Science Society*, Sapporo, Japan
- Ma, Y.K.,* **Chow, H.M.**, Yeung, J.*, Ho, A.W.Y., & Tseng, C.H. (2012). Social elements are not a must for preverbal infants' learning in an interactive event. *The 34th Annual Meeting of the Cognitive Science Society*, Japan.
- Oxner, M., **Chow, H.M.**, Zhong, C.*, Spillmann, L., & Tseng, C.H. (2012). Unraveling the Hong Kong Peak Tram Illusion. *Journal of Vision*, 12(9), 577.
- Chow, H.M.**, Chiu, P.-H., Tseng, C.H., & Spillmann, L. (2011). A multi-sensory illusion: Hong Kong Peak Tram Illusion (II) – Subjective vertical. *i-Perception*, 2(8), 892
- Chan, W.S.*, **Chow, H.M.**, Tan, W.J.*, Park, C.J.*, & Tseng, C.H. (2011). The effects of emotional target and mood state of participants on attentional blink. *i-Perception*, 2(4), 327.
- Tsui, G., **Chow, H.M.**, & Tseng, C.H. (2011). Noise Exclusion Ability in Infants. *i-Perception*, 2(4), 316.
- Chiu, P.H., **Chow, H.M.**, Tseng, C.H., & Spillmann, L. (2011). The Hong Kong Peak Tram Illusion. *i-Perception*, 2(4), 295.
- Tsui, G.H.T., **Chow, D.H.M.**, & Tseng, C.H. (2011). Quick CSF in preverbal infants with forced-choice preferential looking paradigm. *Journal of Vision*, 11(11), article 415.
- Chow, D.H.M.**, Tsui, G.H.T., & Tseng, C.H. (2011). Six- to 12-month-old infants use emotional response, agent identity, and motion cues in associated learning of social events. *Journal of Vision*, 11(11), article 423.
- Chow, H.M.**, & Tseng, C.H. (2010). Effects of emotion on attentional blink. *Vision: the Journal of the Vision Society of Japan*, 22, 76.

University Presentations

- Chow, H.M.** (2025 March). “The effect of sound on visual stability perception” Talk at St. Thomas University Faculty Research Seminar Series, Fredericton, Canada (invited by Dr. Peter Toner)
- Chow, H.M.** (2023 May). “Eye movements as indicators of audiovisual interactions” Talk at Tohoku University Visual Cognition Colloquium, Sendai, Japan (invited by Dr. Chia-huei Tseng)
- Chow, H.M.** (2022 April). “Multisensory development” Talk at UBC Visual Cognition Group, Vancouver, BC, Canada (invited by Dr. Miriam Sperling, virtual)
- Chow, H.M.**, Kreyenmeier, P. *, Bhuiyan, I. *, & Sperling, M. (2021 April). “Fast smooth pursuit orienting as a window into multisensory integration in the human brain?” Talk at Annual Research Day of UBC Department of Ophthalmology and Visual Sciences, Vancouver, BC, Canada (virtual)
- Chow, H.M.** (2019 December). “Eyes as a window to global motion perception: A validation of an oculomotor tracking task to assess motion sensitivity in depth” Lightning talk at UBC Postdoc Research Day, Vancouver, BC, Canada (peer-reviewed)
- Chow, H.M.** (2019 October). “When and how visual processing is affected by a sound” Talk at UBC Vision Lab, Vancouver, BC, Canada (invited by Dr. James Enns)
- Chow, H.M.** (2019 May). “Does a /kiki/ sound look and feel spiky? The development of audio-visual and audio-tactile sound-shape correspondence” Talk at UBC Language Science Research Day, Vancouver, BC, Canada (peer-reviewed)

- Madsen, M.*, **Chow, H.M.**, & Spering, M. (2019 April). Using eye tracking to quickly assess motion perception in humans. Talk at Annual Research Day of UBC Department of Ophthalmology and Visual Sciences, Vancouver, BC, Canada
- Chow, H.M.** (2019 March). “Using eye movements to probe optic flow processing” Talk at UBC Visual Cognition Group, Vancouver, BC, Canada (invited by Dr. Miriam Spering)
- Chow, H.M.** (2018 October). “Selective neural enhancement by sound-shape crossmodal correspondences?” Talk at UBC Visuomotor Performance and Ocular Mobility Lab, Vancouver, BC, Canada (invited by Dr. Miriam Spering)
- Chow, H.M.** (2018 July). “An examination of the interaction of attention and crossmodal correspondences with developmental and neurophysiological approaches” Talk at UMB Department of Psychology (dissertation defense)
- Ciaramitaro, V.M.#, & **Chow, H.M.**# (2015 April). Research and education in parallel: Scientific outreach through on-site experiments at the Museum of Science Boston Living Laboratory. Presentation at UMB Office of Community Partnerships Posters, Paper 233.
- Chow, H.M.** (2013 July). “Why a snake-like structure hurts visual search?” Talk at HKU Department of Psychology, Hong Kong
- Chow, H.M.** (2013 July). “Adapting thermal referral illusion: Physical, Perceptual or both?” Talk at NTT Atsugi Communication Science Laboratories, Kanagawa, Japan
- Chow, H.M.** (2013 February). “The Effect of Perceptual Grouping on Visual Search – an investigation with binocular display and continuous flash suppression paradigm” Talk at NTT Atsugi Communication Science Laboratories, Kanagawa, Japan (invited by Dr. Hsin-Ni Ho)

Community Presentations

- Chow, H.M.** (2023 May). “The science of perceptual illusions” Outreach talk for Indigenous high school students at STU Experience, Fredericton, NB, Canada (in-person)
- Chow, H.M.** (2023 March). “Vision beyond the eyes: The neuroscience of seeing” Outreach talk for high school students and parents at STU Spring Open House, Fredericton, NB, Canada (in-person)
- Spering, M.#, Wu, X.#, Bhuiyan, I.#, & **Chow, H.M.**# (2021 May). “Vision & Psychophysics” Outreach talk for high school students at Research Exploration Opportunity, STEM Fellowship, BC, Canada (virtual)
- Chow, H.M.** (2021 April). “Sensing, Moving, and the Human Brain” Outreach talk for Grade 4/5 students at George Bonner Elementary School, BC, Canada (virtual)
- Chow, H.M.** (2020 August). “Making Sense of our Senses” Outreach talk for children and families at ‘Meet a Scientist’, Science World, Vancouver, BC, Canada (virtual)
- Chow, H.M.** (2020 June). “Making Sense of our Senses” Outreach talk for Grade 1/2 students at Georges Vanier Elementary, BC, Canada (virtual)
- Chow, H.M.** (2020 June). “Making Sense of our Senses” Outreach talk for children and families at ‘Meet a Scientist’, Science World, Vancouver, BC, Canada (virtual)
- Chow, H.M.**#, Madsen, M.#, & Kinjo, H.# (2018 October). “The Importance of Vision” Outreach talk for seniors at Tapestry Arbutus Walk, Vancouver, BC, Canada.
- Spering, M.#, **Chow, H.M.**#, Madsen, M.#, & Kinjo, H.# (2018 September). “The Importance of Vision” Outreach talk for seniors at Tapestry Westbrook Village, Vancouver, BC, Canada
- Chow, H.M.** (2016 November). “When aging is stealing your senses away: Why, How and Ways to stop” Outreach talk for seniors at UMB Osher Lifelong Learning Institute, Boston, MA, USA
- Chow, H.M.** (2016 March-April). “Understanding how your senses work” Outreach course (5 talks) for seniors at UMB Osher Lifelong Learning Institute, Boston, MA, USA
- Chow, H.M.** (2015 November). “When aging is stealing your senses away: Why, How and Ways to stop” Outreach talk for seniors at UMB Osher Lifelong Learning Institute, Boston, MA, USA
- Chow, H.M.** (2015 March-April). “Understanding the world with different senses” Outreach course (5 talks) for seniors at UMB Osher Lifelong Learning Institute, Boston, MA, USA
- Chow, H.M.** (2015 March). “Consciousness and the Brain” Outreach talk for high school students, Boston, MA, USA

Trainee Presentations

- Woodward, G.*, Shioiri, S., Tseng, C.H., & **Chow, H.M.** (2025). Is multisensory integration necessary to relieve saccadic suppression of displacement through auditory blanking? *2025 Annual Meeting of the Vision Sciences Society (Undergraduate-just-in-time)*, St. Pete Beach, USA (Poster)
- d'Entremont, S.*, & **Chow, H.M.** (2025). Testing the link between visual imagery and the tactile Bouba-Kiki effect. *2025 Annual Meeting of the Vision Sciences Society (Undergraduate-just-in-time)*, St. Pete Beach, USA (Poster)
- Woodward, G.*, & **Chow, H.M.** (2025). Do sounds help us perceive more accurately across eye movements? *2025 Science Atlantic Psychology Undergraduate Research Conference*, Fredericton, Canada (Talk)
Science Atlantic Undergraduate Research Award (Oral)
- d'Entremont, S.*, & **Chow, H.M.** (2025). Testing the link between visual imagery and the tactile Bouba-Kiki effect. *2025 Science Atlantic Psychology Undergraduate Research Conference*, Fredericton, Canada (Talk)
- Culligan, B.*, & **Chow, H.M.** (2025). Investigating pupil dilation and cognitive fatigue in a visual search task. *2025 Science Atlantic Psychology Undergraduate Research Conference*, St. Thomas University, Fredericton, Canada (Talk)
- Woodward, G.*, & **Chow, H.M.** (2025). Do sounds help us perceive more accurately across eye movements? *2025 Student Research Ideas Fair*, St. Thomas University, Fredericton, Canada (Talk)
- d'Entremont, S.*, & **Chow, H.M.** (2025). Testing the link between visual imagery and the tactile Bouba-Kiki effect. *2025 Student Research Ideas Fair*, St. Thomas University, Fredericton, Canada (Talk)
- Orellana, F. *, & Chow, H.M. (2025). Investigating beat gestures and cross-modal attention. *2025 Student Research Ideas Fair*, St. Thomas University, Fredericton, Canada (Talk)
- Bunin, S.*, & **Chow, H.M.** (2024). Exploring associations between perceptual load and memory: How does perceptual load impact information retention? *2024 Science Atlantic Psychology Undergraduate Research Conference*, St. Mary's University, Halifax, Canada (Poster)
- Ma, J.*, **Chow, H.M.**, Hatori, Y., Shiori, S., & Tseng, C. (2023). Auditory modulation on saccadic suppression of displacement. *The Summer Meeting of Vision Society of Japan*, Japan (Talk)
- Fields, D.*, * **Chow, H.M.**, (2023). The impact of hand beat gestures on the memory of listeners. *2023 Science Atlantic Psychology Undergraduate Research Conference*, Mount Saint Vincent University, Halifax, Canada (Talk)

Research Supervision & Mentoring

St. Thomas University, Canada

Supervising Undergraduate Honours Thesis Students 2022 – present

Beatrix Culligan (2025–26) TBC

Gavin Woodward (2024–25) ‘Does the Auditory Blanking Effect Require Multisensory Integration?’

****Psychology Department Outstanding Honours Performance 2025****

Sid d’Entremont (2024–25) ‘Testing the Link Between Visual Imagery and the Tactile Bouba-Kiki Effect’

Serena Bunin (2023–24) ‘The Impact of Perceptual Load on Memory’

Danyelle Fields (2022–23) ‘The impact of hand beat gestures on attention and memory of listeners’

Supervising Summer Research Students 2024

Serena Bunin (2024 USRA) ‘The Effect of Perceptual Load on Oculomotor Inhibition’

Gavin Woodward (2024 USRA) ‘The Effect of Crossmodal Correspondences on Oculomotor Inhibition’

Supervising Research Assistants 2023 – present

Beatrix Culligan (2024–25), Flavia Orellana (2023–25), Gavin Woodward (2023–24), Kyla Carter (2023), Alexander D’Alessandro (2023)

The University of British Columbia, Canada

Mentoring Research Students in the Lab 2018 – 2022

Graduate Students: Philipp Kreyenmeier (2020 – 2022)

Undergraduate Students: Nicole Hong (2022), Mathew Gian (2021 – 2022), Lochlan Walsh (2021), Ishmam Bhuiyan (2021), Jane Kim (2020), Matthew Madsen (2019 – 2020)

Other Mentoring Activities

Mentor, Graduate Program of Neuroscience. Supporting 3 graduate students in Neuroscience in navigating graduate school and career exploration 2021 – 2022

Mentor, Undergraduate Research Office. Supported 4 undergraduate students in Undergraduate Research Experience 2019 – 2020

Mentorship Program Proposal Applicant, Program of Undergraduate Research Experience grant competition entitled “Cross-laboratory synergies for undergraduate research training in vision” 2019

Discussion Facilitator, Faculty of Medicine Responsible Conduct of Research Workshop for Graduate Students 2019, 2020

The University of Massachusetts Boston, USA

Mentoring Research Students in the Lab 2013 – 2018

Undergraduate Honours Students:

Neuba Silva (2017 – 2018), Danielle Briggs (2016 – 2017)

Additionally supervised 26 undergraduate research assistants 2013 – 2018

Other Mentoring Activities

Outreach Coordinator, Psychology Connections Committee. Organized two large departmental events promoting awareness and access to information related to research and graduate school for undergraduate students from diverse backgrounds 2014 – 2015

Mentor, Psychology Connections Committee. Reviewed graduate school application materials and discussed career development with 2 undergraduate students from diverse backgrounds per term 2013 – 2016

Graduate Advisor, Psychology Department. Provided academic advising and performed proctoring services to support undergraduate students 2014 – 2015

Professional Service

Ad Hoc Reviewing - Journals

Reviewer, Vision Research, eLife, Scientific Reports, Japanese Psychological Research, Psychological Bulletin & Review, Journal of Intelligence, Vision 2020 – present

Science Communication

Organizer, Educator, Lab Tour for high school students and families visiting Psychology Department (Spring Open House) at STU, Fredericton, NB, Canada (in-person) 2025

Organizer, Perceptual Illusion Exhibition presented by the Perception class students at STU, Fredericton, NB, Canada (in-person) 2024

Educator, Adult Night at Science East, Fredericton, NB, Canada (in-person) 2023

Editor & Contributor, [Brainiac](#) (science communication blog of UBC Djavad Mowafaghian Center for Brain Health) 2020 – 2021

Educator, [‘Meet a Scientist’](#) at Science World, Vancouver, BC, Canada (in-person, then virtual) 2019 – 2021

Organizer, ‘The Science of the Mind, Brain & Behavior’, at UBC [Science Rendezvous](#) 2020 (cancelled due to COVID-19 pandemic) 2020

Volunteer, Program Evaluation at UBC Science Rendezvous 2019 2019

Organizer & Educator, [Living Laboratory®](#), Museum of Science, Boston, MA 2014 – 2018

Educator, [High School Health Fair](#), Museum of Science Boston, MA 2017, 2018

Educator, ‘What do babies think?’ Science Carnival at [Cambridge Science Festival](#), Cambridge, MA, USA 2017, 2018

Organizer, Educator, Lab Tour for high school students visiting UMB Baby Lab during Brain Awareness Week 2016

Committees and Service Positions

Member, STU Senate Research Committee 2024 – 2026

Member, STU FAUST Constitution Review Committee 2023 – 2025

Member, STU Psychology Departmental Curriculum Committee 2022 – 2025

Abstract Reviewer, Moderator, Award Judge, The 2025 [Science Atlantic Psychology](#) Student Research Conference 2025

Member, STU Psychology Departmental Ethics Committee 2023 – 2024

Member, STU Psychology Departmental Renewal, Promotion, and Tenure Committee 2022 – 2023

Peer Reviewer, CIHR Doctoral Research Awards 2022

Vice President Operations, [UBC Postdoctoral Association](#) 2021 – 2022

Member, EDI Subcommittee, UBC Postdoctoral Association 2020 – 2022

Executive Member, UBC Postdoctoral Association 2020 – 2021

Lab Representative, Local Safety Team Committee, UBC DMCBH 2020 – 2021

Caption Editor and Translator, [Neuromatch Academy](#) 2020

Abstract Reviewer, UBC [Multidisciplinary Undergraduate Research Conference](#) 2019, 2020

Co-chair, UMB Developmental and Brain Sciences Brownbag 2016 – 2017

Co-chair, UMB Psychology Connections Committee 2014 – 2015