

Ashley Chung-Fat-Yim, Ph.D.

Department of Communication Science and Disorders, Northwestern University

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Citizenship: Canadian

PROFESSIONAL APPOINTMENTS

2020–Present Post-Doctoral Scholar, Northwestern University
The Roxelyn and Richard Pepper Department of Communication Sciences and Disorders
Principal Investigator: Dr. Viorica Marian

EDUCATION

2020 York University, Psychology, Ph.D.
Dissertation: *Examining the Time Course of Attention in Monolinguals and Bilinguals*
Supervisor: Dr. Ellen Bialystok

2013 York University, Psychology, M.A.
Thesis: *Resolving Between-Language and Within-Language Competition in Bilinguals*
Supervisor: Dr. Ellen Bialystok

2010 York University, Psychology, B.Sc.
Honors Thesis: *Forbidden Zone for Single Vision*
Supervisor: Dr. Hiroshi Ono
Recipient of the W. B. Templeton Award

RESEARCH INTERESTS

cognitive neuroscience; bilingualism; language experience; executive functions
multisensory emotion processing; cross-cultural research
narrative transportation, discourse processing
event-related potentials; behavioral assessments; experimental design

RESEARCH FUNDING

2022–2027 Co-Investigator (P.I.: Dr. Viorica Marian) USD \$3,568,294
Cognitive Architecture of Bilingual Language Processing.
National Institutes of Health, NICHD R01
Co-Investigator: Dr. Sayuri Hayakawa

2021–2023 Co-Investigator (P.I.: Dr. Viorica Marian) USD \$49,941
How the African-American English Dialect Impacts Medical Evaluations.
Delaney Foundation for Research and Communication
Co-Investigator: Dr. Sayuri Hayakawa

AWARDS AND DISTINCTIONS

2023 OPA Travel Grant for Underfunded Disciplines, Northwestern University, \$800 USD

2022	OPA Professional Development Travel Grant, Northwestern University, \$800 USD
2019	Mitacs Globalink Research Award, \$6,000 CAD
2019	ThinkSwiss Research Scholarship, 3,720 CHF
2018	Society for Text and Discourse Student Travel Award, \$350 CAD
2018	Faculty of Health Graduate Student Conference Travel Award, \$1,000 CAD
2016	Ontario Graduate Scholarship, \$15,000 CAD
2016	Faculty of Health Graduate Student Conference Travel Award, \$1,000 CAD
2014	Ontario Graduate Scholarship, \$15,000 CAD
2013	Ontario Graduate Scholarship, \$15,000 CAD
2011	York Graduate Entrance Scholarship, \$4,000 CAD
2010	W. B. Templeton Award, York University, \$100 CAD
2010	Certificate of Academic Excellence - Honours Thesis, Canadian Psychological Association
2009	York University Continuing Student Scholarship
2009	Selected to attend the Centre for Vision Research Summer School
2007–2010	Dean's Honours Roll, York University
2006	York University Entrance Scholarship, \$1,000 CAD

PUBLICATIONS AND PRESENTATIONS

Peer-Reviewed Journal Articles

- Chen, P., **Chung-Fat-Yim, A.**, Guo, T., & Marian, V. (2023). The influence of cultural background and input familiarity on multisensory emotion perception. *Cultural Diversity and Ethnic Minority Psychology*. <https://doi.org/10.1037/cdp0000577>
- Chung-Fat-Yim, A.**, Lo, R. F., & Mar, R. A. (2023). Multilingualism and mentalizing abilities in adults. *Bilingualism: Language and Cognition*, 26(2), 456-467. <https://doi.org/10.1017/S1366728922000669>
- Chung-Fat-Yim, A.**, Chen, P., Chan, A. H. D., & Marian, V. (2022). Audio-visual interactions during emotion processing in bicultural bilinguals. *Motivation and Emotion*, 46(5), 719-734. <https://doi.org/10.1007/s11031-022-09953-2>
- Hayakawa, S., **Chung-Fat-Yim, A.**, & Marian, V. (2022). Predictors of language proficiency and cultural identification in heritage bilinguals. *Frontiers in Communication*, 7, 994709. <https://doi.org/10.3389/fcomm.2022.994709>
- Bialystok, E., Hawrylewicz, K., Grundy, J. G., & **Chung-Fat-Yim, A.** (2022). The swerve: How childhood bilingualism changed from liability to benefit. *Developmental Psychology*, 58(8), 1429-1440. <https://doi.org/10.1037/dev0001376>
- Also appears as “[Does bilingualism make children smarter?](#)” in Kudos Research Showcase by the *American Psychological Association*.
- Chung-Fat-Yim, A.**, Calvo, N., & Grundy, J. G. (2022). The multifaceted nature of bilingualism and attention. *Frontiers in Psychology*, 13, 910382. <https://doi.org/10.3389/fpsyg.2022.910382>

- Chen, P., **Chung-Fat-Yim, A.**, & Marian, V. (2022). Cultural immersion experience influences multisensory emotion perception in bilinguals. *Languages*, 7(1), 12. <https://doi.org/10.3390/languages7010012> *Selected as [the issue cover](#).
- Chung-Fat-Yim, A.**, Poarch, G. J., Comishen, K. J., & Bialystok, E. (2021). Does language context impact the neural correlates of executive control in monolingual and multilingual young adults? *Brain and Language*, 222, 105011. <https://doi.org/10.1016/j.bandl.2021.105011>
- Chung-Fat-Yim, A.**, Sorge, G. B., & Bialystok, E. (2020). Continuous effects of bilingualism and attention on flanker task performance. *Bilingualism: Language and Cognition*, 23(5), 1106-1111. <https://doi.org/10.1017/s1366728920000036>
- Chung-Fat-Yim, A.**, Himel, C., & Bialystok, E. (2019). The impact of bilingualism on executive function in adolescents. *International Journal of Bilingualism*, 23(6), 1278-1290. <https://doi.org/10.1177/1367006918781059>
- Chung-Fat-Yim, A.**, Cilento, E., Piotrowska, E., & Mar, R. A. (2019). Are stories just as transporting when not in your native tongue? *Language and Cognition*, 11(2), 285-309. <https://doi.org/10.1017/langcog.2019.15>
- Anderson, J. A. E. *, **Chung-Fat-Yim, A. ***, Bellana, B., Luk, G., & Bialystok, E. (2018). Language and cognitive control networks in monolingual and bilingual young adults. *Neuropsychologia*, 117, 352-363. <https://doi.org/10.1016/j.neuropsychologia.2018.06.023> *joint first authorship.
- Chung-Fat-Yim, A.**, Peterson, J. B., & Mar, R. A. (2017). Validating self-paced sentence-by-sentence reading: Story comprehension, recall, and narrative transportation. *Reading and Writing*, 30(4), 857-869. <https://doi.org/10.1007/s11145-016-9704-2>
- Chung-Fat-Yim, A.**, Sorge, G. B., & Bialystok, E. (2017). The relationship between bilingualism and selective attention: Evidence from the ambiguous figures task. *Quarterly Journal of Experimental Psychology*, 70(3), 366-372. <https://doi.org/10.1080/17470218.2016.1221435>
- Grundy, J. G., **Chung-Fat-Yim, A.**, Friesen, D. C., Mak, L., & Bialystok, E. (2017). Sequential congruency effects reveal differences in disengagement of attention for monolingual and bilingual young adults. *Cognition*, 163, 42-55. <https://doi.org/10.1016/j.cognition.2017.02.010>
- Li, H., Jia, H., **Chung-Fat-Yim, A.**, Jin, L., & Yu, D. (2017). The neural correlates of vertical disparity gradient and cue conflict in Panum's limiting case. *Brain and Cognition*, 114, 11-19. <https://doi.org/10.1016/j.bandc.2017.02.005>
- Friesen, D. C., **Chung-Fat-Yim, A.**, & Bialystok, E. (2016). Lexical selection differences between monolingual and bilingual listeners. *Brain and Language*, 152, 1-13. <https://doi.org/10.1016/j.bandl.2015.11.001>
- Chung-Fat-Yim, A.**, & Ono, H. (2012). Mapping the "forbidden zone" near and away from the fixation point. *Perception*, 41(6), 661-672. <https://doi.org/10.1068/p7201>

Book Chapters

- Chung-Fat-Yim, A.**, Fernandez-Duque, M., & Marian, V. (accepted pending minor revisions). Multilingualism, creativity, and problem-solving. In E. Babatsouli (Ed.), *Multilingual acquisition and learning: Towards an ecosystemic view to diversity*. John Benjamins Publishing Company.

- Grundy, J. G., & **Chung-Fat-Yim, A.** (2023). Domain-general electrophysiological changes associated with bilingualism. In G. Luk, J. A. E. Anderson, & J. G. Grundy (Eds), *Understanding Language and Cognition through Bilingualism* (pp. 236-262). John Benjamins Publishing Company. <https://doi.org/10.1075/sibil.64.12gru>
- Chung-Fat-Yim, A.**, Hayakawa, S., & Marian, V. (2023). Multilingualism and cognitive control in the brain. In J. Cabrelli, A. Chaouch-Orozco, J. González Alonso, S. M. Pereira Soares, E. Puig-Mayenco, & J. Rothman (Eds.), *The Cambridge Handbook of Third Language Acquisition and Processing* (pp. 519-554). Cambridge University Press.
- Chung-Fat-Yim, A.**, Calvo, N., & Grundy, J. G. (2023). The multifaceted nature of bilingualism and attention. In M. Antoniou, C. Pliatsikas, & S. R. Schroeder, S. (Eds.). *New approaches to how bilingualism shapes cognition and the brain across the lifespan: Beyond the false dichotomy of advantage versus no advantage*. Lausanne: Frontiers Media SA. doi:10.3389/978-2-83251-729-1 (This is a 2022 *Frontiers in Psychology* article reprinted as a book chapter.)
- Chung-Fat-Yim, A.**, & Bialystok, E. (2022). Language and thought in multilingual children. In Stavans, A. & Jessner, U. (Eds.), *The Cambridge Handbook of Child and Childhood Multilingualism* (pp. 113-140). Cambridge University Press. <https://doi.org/10.1017/9781108669771.008>

Popular Science Essays

- Marian, V., Fernandez-Duque, M., & **Chung-Fat-Yim, A.** (2023, May). The surprising creative power of the multilingual brain. *Fast Company*. May 6, 2023. <https://www.fastcompany.com/90884912/the-surprising-creative-power-of-the-multilingual-brain>

Invited Talks

- Chung-Fat-Yim, A.** (2023, April). *How bilingual language experience shapes cognitive abilities*. Invited talk given as part of the symposium titled iBrain Erasmus International Symposium on Heritage Bilingualism. Kotagiri, India.
- Chung-Fat-Yim, A.** (2021, August). *Bilingualism's positive impact on cognitive development*. Invited talk given as part of the International Student Program Culture of Language Speaker Series at the California Institute of Technology, Pasadena, CA.
- Chung-Fat-Yim, A.** (2020, November). *The cognitive effects of being bilingual*. Invited talk given at the brownbag talk series in the Cognitive Program at University of Illinois Chicago, Chicago, IL.
- Chung-Fat-Yim, A.** (2019, October). *Are stories just as transporting in your foreign language?* Invited talk given at the Institute of Multilingualism, Fribourg, Switzerland.
- Chung-Fat-Yim, A.** (2019, September). *A closer look at bilingualism and executive functioning*. Invited talk given to the *Bilingualism and Psycholinguistics Research Group*, Evanston, IL.

Conference Talks

- Chung-Fat-Yim, A.**, Hayakawa, S., & Marian, V. (2023, August). *Bilingualism experience shapes linguistic and cognitive abilities*. Talk accepted as part of the symposium titled Consequences of Bilingualism for Memory and Cognition chaired by Drs. Sirada Rochanavibhata and Viorica Marian at the Society for Applied Research in Memory and Cognition, Nagoya, Japan.

Chung-Fat-Yim, A., Hayakawa, S., & Marian, V. (2023, April). *Bilingualism predicts NIH Toolbox Cognition Battery scores: A cluster analysis*. Talk presented as part of the symposium on Linguistic and Cognitive Processing in Bilinguals and Second Language Learners chaired by Drs. **Ashley Chung-Fat-Yim** and Viorica Marian at the Midwestern Psychological Association, Chicago, IL.

Williams, A. I., **Chung-Fat-Yim, A.,** Haack, L., Marian, V., Pfflner, L. (2022, November). *Promising effects of socioemotional skills training in bilingual children with attention and behavioral concerns*. Talk presented at the American Congress of Rehabilitation Medicine, Chicago, IL.

Chung-Fat-Yim, A., Chen, P., & Marian, V. (2022, May). *Culture and input familiarity influence emotion perception in bilinguals*. Talk presented as part of the symposium on Multilingualism and Emotion chaired by Drs. Stephen Chen and Aya Williams at the Association for Psychological Science, Chicago, IL.

Conference Poster Presentations

Chung-Fat-Yim, A., Bartolotti, J., & Marian, V. (2022, November). *The influence of language experience and bigram frequencies on rapid automatized naming*. Poster presented virtually at the 63rd annual meeting of the Psychonomic Society, Boston, MA.

Chung-Fat-Yim, A., Chen, P., & Marian, V. (2022, August). *Cultural immersion and experience shape emotion perception in bilinguals*. Poster presented at the 4th International Symposium on Bilingual and L2 Processing in Adults and Children, Tromsø, Norway.

Jesin, D., **Chung-Fat-Yim, A.,** & Bialystok, E. (2018, August). *Looking beyond RTs: The effect of bilingualism on executive control*. Poster presented at the Summer 2018 NSERC Undergraduate Research Conference, Toronto, Ontario

Chung-Fat-Yim, A., & Mar, R. A. (2018, July). *Narrative transportation for text in one's first or second language*. Poster presented at the 28th annual meeting for the Society of Text and Discourse, Brighton, United Kingdom.

Chung-Fat-Yim, A., Grundy, J. G., Barker, R. M., Anderson, J. A. E., & Bialystok, E. (2017, October). *Brain signal complexity differences between monolingual and bilingual children*. Poster presented at the 10th biennial meeting of the Cognitive Development Society, Portland, Oregon.

Chung-Fat-Yim, A., Peterson, J. B., & Mar, R. A. (2016, July). *Self-paced sentence-by-sentence reading on story comprehension, recall, and narrative transportation*. Poster presented at the 23rd annual meeting at the Society for Scientific Study of Reading, Porto, Portugal.

Li, H., Jia, H., **Chung-Fat-Yim, A.,** Jin, L., & Yu, D. (2016, May). *Neural correlates of vertical disparity gradient and cue conflict in Panum's limiting case*. Poster accepted for presentation at the 16th annual meeting for the Vision Sciences Society, St. Pete Beach, Florida.

Chung-Fat-Yim, A., Berkes, M., Mesite, L., Bellana, B., Luk, G., & Bialystok, E. (2015, May). *Structural and functional differences between monolingual and bilingual young adults*. Poster presented at the Workshop on Bilingualism and Executive Function, New York City, New York.

- Chung-Fat-Yim, A.**, Mesite, L., Bellana, B., Luk, G., & Bialystok, E. (2015, March). *White matter differences in monolingual and bilingual young adults*. Poster presented at the 22nd annual meeting of the Cognitive Neuroscience Society, San Francisco, California.
- Chung-Fat-Yim, A.**, Friesen, D. C., Timmer, K., & Bialystok, E. (2014, July). *Electrophysiological differences between monolinguals and bilinguals on the flanker task*. Poster presented at the 24th annual meeting of the Canadian Society for Brain, Behaviour and Cognitive Sciences, Toronto, Ontario.
- Chung-Fat-Yim, A.**, Friesen, D., & Bialystok, E. (2013, November). *Lexical resolution from semantic competitors in monolinguals and bilinguals*. Poster presented at the 54th annual meeting of the Psychonomic Society, Toronto, Ontario.
- Sorge, G. B., Hawrylewicz, K., **Chung-Fat-Yim, A.**, & Bialystok, E. (2013, October). *Do bilingualism and attentional difficulties interact in executive function performance?* Poster presented at the 8th biennial meeting of the Cognitive Developmental Society, Memphis, Tennessee.
- Chung-Fat-Yim, A.**, & Ono, H. (2010, April). *The forbidden zone for single vision*. Poster presented at the York University Undergraduate Thesis Poster Day, Toronto, Ontario.

Public Engagement

- Chung-Fat-Yim, A.** (2021, December). *The cognitive benefits associated with learning a second language*. Invited talk at the German International School Chicago Open House, Chicago, IL.
- Chung-Fat-Yim, A.** (2021, October). *How learning a second language shapes the mind and brain*. Invited talk given as part of the Faculty and Staff Development Day at the German International School Chicago, Chicago, IL.
- Chung-Fat-Yim, A.** (2018, November). *How does learning two languages impact cognitive development?* Invited talk given at the 2nd annual Bilingual Education Fair, San Francisco, CA.
- Chung-Fat-Yim, A.** (2018, February). *Growing up with two languages: The effect of bilingualism on cognitive development*. Invited talk given at the 1st annual Bilingual Education Fair, San Francisco, CA.

RESEARCH EXPERIENCE

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| 2012–2020 | ERP Manager
Lifespan Cognition and Development Laboratory, York University, Toronto, Canada |
| 2014–2019 | Journal Club Coordinator
Lifespan Cognition and Development Laboratory, York University, Toronto, Canada |
| 2015–2016 | ERP Data Consultant
Wilcox Laboratory, York University, Toronto, Canada |
| 2015 | E-Prime Specialist
Attention and Memory Laboratory, University of Toronto, Toronto, Canada |
| 2014 | Project Assistant
Project Title: Enhancing IEN Academic and Professional Language Competencies through Fair and Effective Systems Change, York University, Toronto, Canada |

2008–2010 Research Assistant
 Ono Lab, York University, Toronto, Canada

TEACHING EXPERIENCE

Guest Lectures

Northwestern University

2023, Spring CSD 309, “Impact of Language on Cognitive and Emotional Development”
 2023, Winter CSD 469, “Multilingualism, Culture, and Emotional Development”
 2023, Winter CSD 469, “Multilingualism and Cognitive Development”
 2022, Winter CSD 207, “Culture and Emotional Development”
 2022, Winter CSD 207, “Cognitive Development in Bilinguals”

York University

2019, Winter PSYC 2110, “Emotional Development”
 2016, Summer PSYC 4010, “Introduction to Developmental Psychology”
 2012, Fall PSYC 2030, “Structure of a Paper and the APA format”
 2012, Fall PSYC 2030, “Quasi-Experimental Design and Applied Research”

Teaching Assistantships

York University

2019, Winter PSYC 2110 - Developmental Psychology, Dr. Ellen Bialystok
 2018-2019 PSYC 1010 - Introduction to Psychology, Dr. Rebecca Jubis
 2017, Summer PSYC 2110 - Developmental Psychology, Dr. Scott Adler
 2016, Summer PSYC 2240 - Biological Basis of Behaviour, Dr. Jennifer Bazaar
 2016, Fall PSYC 2130 – Motivation, Dr. Frank Marchese
 2015, Winter PSYC 3260 – Cognition, Dr. Kalinka Timmer
 2014-2016 PSYC 1010 - Introduction to Psychology, Dr. Rebecca Jubis
 2013, Fall PSYC 2120 - Social Psychology, Dr. James Check
 2012, Fall PSYC 2030 - Introduction to Research Methods, Dr. Agnieszka Kopinska
 2011, Fall PSYC 2030 - Introduction to Research Methods, Dr. Curtis Phillips

Mentoring

2023–Present Celine Tsoi
 Cognitive Development Society - Mentorship Program, Virtual

2023–Present Maya Page
 Early Research Experience Award, \$2000 USD, Northwestern University, Evanston, IL
 Project Title: *Language co-activation during visual word comprehension.*

2021–Present Martina Bernal
 Science Research Program at Sacred Heart Greenwich High School, Greenwich, CT
 Project Title: *The role of bilingualism in enhancing adolescents’ selective attention using grammatical illusions.*

2021 Judy Yu Ying Nie
 Graduate Research Volunteer, Northwestern University, Evanston, IL

- 2018 Project Title: *The influence of language experience and bigram frequencies on rapid automatized naming.*
David Jesin
NSERC Undergraduate Student, York University, Toronto, Canada
- 2014–2016 Project Title: *Looking beyond RTs: The impact of bilingualism on executive control.*
Cari Himel
Science Research Program at Horace Greeley High School, Chappaqua, NY
Project Title: *Examining the relationship between executive control and bilingualism in high school students.*
- 2013–2014 Angelina Pinhasov
Independent Study Student, York University, Toronto, Canada
Project Title: *Tapping into executive functions using language contexts.*

ACADEMIC PUBLICATION EDITORSHIP

- 2023–2025 International Editorial Board Member
Humanities and Social Sciences Communications
- 2022–2023 Special Issue Associate Editor
Bilingualism and multilingualism: Language, cognition, and the brain
Translational Issues in Psychological Science

PROFESSIONAL SERVICE

Ad Hoc Journal Reviewer

- 2016–Present *Applied Psycholinguistics, Brain and Language, Cognitive Development, Cognitive Sciences, Developmental Psychology, Frontiers in Education, Frontiers in Human Neuroscience, Frontiers in Psychology, Humanities and Social Sciences Communications, International Journal of Bilingualism, International Journal of Bilingualism and Bilingual Education, Journal of Experimental Child Psychology, Journal of Multilingual Theories and Practices, Languages, Language Learning and Development, Linguistic Approaches to Bilingualism, Quarterly Journal of Experimental Psychology, Reading and Writing, Studies in Second Language Learning and Teaching*

Conference Abstract Reviewer

- 2023 *International Symposium on Bilingualism (ISB14)*
2022 *International Symposium on Bilingual and L2 Processing in Adults and Children.*

Invited Panelist

- April 2023 “Professional Development: Working with Bilinguals and Multilinguals: Research, Practice, and Community”
Midwestern Psychological Association
- May 2022 “Uncovering the Secrets of Graduate School: The Grant Process”
Association for Psychological Science
- May 2022 “Career Networking Session”
Association for Psychological Science

Membership

2023–Present	Society for Applied Research in Memory and Cognition
2022–Present	American Congress of Rehabilitation Medicine
2022–Present	Midwestern Psychological Association
2022–Present	Society for the Neurobiology of Language
2020–Present	American Association for the Advancement of Science
2020–Present	Psychonomic Society
2020–Present	Women in Cognitive Science
2022	Association for Psychological Science

PROFESSIONAL ACTIVITIES

2023	Symposium Organizer with Dr. Viorica Marian, “Linguistic and Cognitive Processing in Bilinguals and Second Language Learners,” Midwestern Psychological Association
2023	Volunteer Science in Society, Northwestern University
2022	Planning Committee 1 st International Workshop on Cybersecurity and Social Sciences
2022	Volunteer at the Brain Awareness Fair (Speech and Language/Neuropsychological Tests) Northwestern University Brain Awareness Outreach
2016–2018	Area Coordinator Developmental Science Program, York University, Toronto, Canada
2011–2013	Departmental Representative Psychology Graduate Students Association, York University, Toronto, Canada
2011–2013	Mentor Guidance in Psychology for Success, York University, Toronto, Canada

MEDIA COVERAGE

2022/12/22	<i>Nuances Podcast</i> , S2 E5: A holiday special.
2022/07/10	<i>Nuances Podcast</i> , S1 E11: Dr. Ashley Chung-Fat-Yim on how bilinguals’ brains differ from monolinguals’, and how bilingualism improves performance at other tasks.
2021/12/06	<i>Chicago Parent</i> , The value of bilingual education at the German International School Chicago.
2020/05/05	<i>Discover Magazine</i> , How learning a language changes your brain.
2019/02/06	<i>Lycée Français de San Francisco</i> , The gift of bilingualism starts early!
2018/11/06	<i>Frenchly</i> , The hidden powers of the bilingual brain.

TECHNICAL SKILLS

- R/SPSS/SAS
- OpenSesame/E-Prime
- EEGLab and ERPLab toolboxes in MATLAB
- Microsoft Office

REFERENCES

Dr. Viorica Marian
Department of Communication Sciences and Disorders, Northwestern University
v-marian@northwestern.edu

Dr. Ellen Bialystok
Department of Psychology, York University
ellenb@yorku.ca

Dr. John G. Grundy
Department of Psychology, Iowa State University
grundy@iastate.edu

Dr. Raymond A. Mar
Department of Psychology, York University
mar@yorku.ca