Bre-Anna K. Owusu

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TEACHING & RESEARCH AREAS OF INTEREST

Attention | Child Development | Cognitive Science | Language | Memory | Music Cognition | Psychometry

EDUCATION	& TRAINING

PhD, Neuroscience McMaster University, Hamilton, Canada	<u>A</u>	<u>dvisor</u> : Dr.	2018 – 2025 Elisabet Service
 Master of Science, Cognitive Neuroscience and Research Methods in Psychology Swansea University, Swansea, Wales 	<u>Advisors</u> : I		2016 – 2017 Lloyd-d Jones & Hana Burianová
Bachelor of Science Honours, Psychology and Exceptionality in Human Learning University of Toronto, Mississauga, Canada			2011 – 2015
RESEARCH & CONFERENCE FUNDING			
Conference Funding, Rac(e)ing Towards Inclusion in Academia and Industry	Institutional	\$3,250	2022
International Merit Postgraduate Scholarship, Swansea University	International	\$4,000	2016 - 2017
International Postgraduate Taught Excellence Scholarship, Swansea University	International	\$4,000	2016 – 2017
AWARDS & HONOURS			
J. Frank Yates Student Conference Award	International	\$1,000	2023
 Psychology, Neuroscience & Behaviour Graduate Research Day, Best Data Blitz Presentation 	Institutional	\$75	2023
Umoja Award, African Caribbean Faculty Association	Institutional	\$1,000	2022
 McMaster University Faculty of Health Sciences Plenary Graduate Student Leadership Award 	Institutional		2022
 McMaster University Faculty of Health Sciences Plenary Teaching Assistant Excellence Award 	Institutional		2021
 McMaster Student University Teaching Assistant of the Year Award* * Ranked Top 5 	Institutional		2021
• McMaster University Faculty of Health Sciences Graduate Plenary PechaKucha Competition* *Ranked Top 3	Institutional		2021
University of Toronto Admission Scholarship	Institutional	\$1,500	2011

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PUBLICATIONS

• Owusu, B. K., & Burianová, H. (2020). Transcranial direct current stimulation improves novel word recall in healthy adults. *Journal of Neurolinguistics*, 53, 1–9.

 Agrawal, T., Cui, A-X., Lense, M. D., Lopez, G., Owusu, B. K., Schachner, A., Slevc, L. R., Swaminathan, S., & Vuvan., D. T. (2024). From Commitment to Action: Assessing the Impact of New Mentorship Programs to Promote Equity in the Society for Music Perception and Cognition. *Music Perception*, 41(4), 233–239.

Chapters in Books

- Owusu, B., Dhanoa, J., Hylton, A., Ing, E., Mappanasingam, A., Patel, A., Pavlakos, R., & deBie., A. (2022). Student Voices from the Classroom, Concluding reflections on cultivating an environment where learning deeply matters. In A. de Bie, S. Baptiste, C.A. Grisé (Eds.). Where learning deeply matters: Reflections on the past, present, and future of teaching at McMaster University.
- Mighty, J., Braithwaite, A., Deng, J., Huang, S., Leacock, B., Lopes, V., MacDonald, M., Pérez, R. N.,
 Owusu, B., & Toulouse, P. (2022). Misalignment, Negotiation, and Compromise: The Challenging Process of Pursuing Equity, Diversity, and Inclusion in Higher Education. Invited chapter in J. Christensen Hughes, J. Mighty, D. Stockley and L. Young (Eds.). Taking Stock 2.0: Transforming Teaching and Learning in Higher Education.

Articles in Revision

• Owusu, B., Cannon, J., Pape, D., & Service, E. (in revision). Rhythmic priming may enhance verbal working memory in musicians and non-musicians. *Memory & Cognition*.

Artistic Contributions

Curator, Racial Views. KUNSTMATRIX Virtual Exhibition.

Contributors included: Harmata Aboubakar, Mariama Henry, Aleks Raymond, Paryse Reed, Amy Schranz, Selina Shi. Exhibited artwork at KUNSTMATRIX

ACCEPTED CONFERENCE POSTERS & PRESENTATIONS student trainees are

underlined

Published Abstracts

• Owusu, B. (2021). The He(ART) of Dyslexia: How can listening to music improve verbal memory? Talk, NeuroSymposium. *McGill Journal of Medicine*, 20(1).

Conference Presentations

- Owusu, B., & Service, E. (July 2023). Priming with musical rhythm enhances verbal working memory. Talk, Canadian Society for Brain, Behaviour, and Cognitive Science, Guelph, ON.
- Owusu, B., * & Service, E. (Apr 2023). Let the Music Play: The beneficial effects of musical rhythms on verbal working memory. Talk, Psychology, Neuroscience & Behaviour Graduate Research Day, Hamilton, ON.

^{*} Psychology, Neuroscience & Behaviour conference award, Best Data Blitz Presentation

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• Owusu, B., Alnahhar, D., Campbell, J., & Service, E. (Apr 2023). Let the Music Play: The beneficial effects of musical rhythms on verbal working memory. Poster, Student Research Day, Hamilton, ON.

- Owusu, B., & Service, E. (Nov 2022). Can rhythmic stimulation benefit verbal memory? Poster, NeuroMusic 18th Annual Conference, Hamilton, ON.
- Owusu, B., & Service, E. (Oct 2022). Rhythmic stimulation boosts memory for new word forms in children. Poster, Mental Lexicon, Niagara, ON.
- Homiar, A., Owusu, B., & Service, E. (Apr 2022). The influence of musical training on visuospatial working memory processing in musicians with dyslexia. Poster, Student Research Day, Hamilton, ON.
- **Owusu, B.,** & Service, E. (Nov 2021). Can musical rhythm primes boost memory for new word forms in dyslexia? Poster, Psychonomic Society 62nd Annual Meeting, Virtual Meeting.
- Owusu, B. (May 2021). Music and Dyslexia: Please don't stop the music. Talk, Black Graduate Student Association, Virtual Meeting.
- <u>Boguslavski, L.,</u> & **Owusu, B.** (Apr 2021). A plan for combining musical training and action video games as a therapeutic tool for dyslexia. Poster, Student Research Day, Virtual Meeting.
- Owusu, B., & Service, E. (Apr 2021). Music and Memory—Tunes for dyslexia. Talk, Student Research Day, Virtual Meeting.

OTHER PRESENTATIONS

- **Teaching Assistant Welcome.** (Sept 2022). Paul R. MacPherson Institute for Leadership, Innovation and Excellence in Teaching. Panelist on *Experienced TA Panel Discussion*. Hamilton, ON.
- **GenSTEM Conference.** (Dec 2021). WISE (McMaster Women in Science and Engineering). Youth outreach workshop co-presenter. Virtual Meeting.
- Three Minute Thesis (3MT). (June 2021). The He(ART) of Dyslexia: How can listening to music improve verbal memory? 6th edition of NeuroSymposium. Virtual Meeting.
- Plenary Presentation*. (May 2021). <u>The Cocktail Party Effect: Mixing rhythms for dyslexia</u>. Virtual Meeting.
 * Ranked Top 3 for best PechaKucha Presentation
- **GRADFlix Competition*.** (March 2021). <u>Syncing' to the Beat of your Own Brain</u>. McMaster University. * Finalist

TEACHING EXPERIENCE

Course Instructor

Cognitive Neuroscience of Language (LINGUIST/PSYCH 3NL3) | McMaster University

Jan 2026 – Present

Attendance: 75 undergraduate students

- Child Language Acquisition (LINGUIST/PSYCH 3C03) | McMaster University |
 <u>Attendance:</u> 100 undergraduate students (online course)
- Child Development (PSYCH 2AA3) | McMaster University | <u>Attendance:</u> 87

CVBre-Anna K. Owusu undergraduate students Sep 2023 – Dec 2023 • Essential Theory in Teaching and Learning (EDUCATN 640) | McMaster University | Attendance: 35 graduates, postdocs, faculty, and staff Sep 2019 – Nov 2019 • Millennials, Music & the Mind (EXPLORE 3IE1) | McMaster University | Attendance: 13 undergraduate students Guest Lecturer Oct 2020-2022 Applied/Advanced Placement | <u>Topic</u>: Supervisor Interviews Jan 2018–2022 Applied/Advanced Placement | <u>Topic</u>: LinkedIn Networking Oct/Feb 2018-2022 Applied/Advanced Placement | Topic: Mind Maps Chapter Presentation Nov 2018 • Neuroscience NEUROSCI 700 | Attendance: 20 graduate students *Topic*: Language, Thought, Affect and Learning Teaching Assistant Sep 2018 – Apr 2022 Independent Study LIFESCI 4A03 | *Instructor*: Dr. Sunita Nadella Sep 2018 – Apr 2022 Research Practicum LIFESCI 3RP3 | *Instructor*: Dr. Sunita Nadella Sep 2018 - Apr 2022 Independent Project LIFESCI 4B09 | Instructor: Dr. Sunita Nadella Sep 2018 – Apr 2022 Independent Thesis LIFESCI 4C12/D15 | Instructor: Dr. Sunita Nadella Sep 2018 – Apr 2022 Applied/Advanced Placement* LIFESCI 3EP3/4EP6 | *Instructor*: Dr. Sunita Nadella * Awarded the Faculty of Health Sciences Plenary Teaching Assistant Excellence Award *Awarded Rank of top 5 McMaster Student University Teaching Assistant of the Year Award **MENTORSHIP & CO-SUPERVISION** Graduate Mentorship Sep 2021 – Apr 2022 • Jonathan Lieberman, Neuroscience Health Sciences Mentorship Program (HSMP) Sep 2020 - Apr 2021 • Olivia Turner, Neuroscience Health Sciences Mentorship Program (HSMP) Undergraduate Mentorship Sep 2021 – Apr 2022 • Renisha Rodrigues, Life Sciences Black Student Mentorship Program (BSMP) Sep 2020 - Apr 2021 Hephzibah Ali, Health Sciences Black Student Mentorship Program (BSMP) Supervised Undergraduate Independent Project Students Jan 2022 – Apr 2022 Ava Homiar, Life Sciences | *Topic*: Temporal processing in dyslexic musicians Jan 2021 – Apr 2021 Lior Boguslavski, Life Sciences | *Topic*: Video game music and dyslexia Conan Hu, Psychology, Neuroscience & Behaviour | *Topic*: Rhythm and

CV amusia	Bre-Anna K. Owusu Sep 2019 – Dec 2019
 Co-Supervised Research Assistants Sophia De Mesa Chiara Malatesta Dana Alnahhar, Jacquelyn Campbell Ava Homiar, Jacquelyn Campbell Abigail Almeida, Ava Homiar Anna Lui, Conan Hu, Daniela Andreadis, Jacquelyn Campbell, Lior Boguslavski, Louise Huang 	Feb 2023 – Feb 2024 Sep 2023 – Dec 2023 Jan 2023 – Apr 2023 Jan 2022 – Apr 2022 Jun 2021 – Aug 2021 Sep 2020 – Apr 2021
EDITORIAL ACTIVITIES	
Editorial Board • Member ARiEAL Research Magazine	May 2023 – Sep 2023
 Peer Reviewing 50 Years of Stories MacPherson Institute for Leadership, Innovation and Excellence in Teaching 	2021 - 2022
SERVICE & COMMITTEE MEMBERSHIPS	
 International Mentorship Committee Member Society for Music, Perception and Cognition (SMPC) 	2021 - 2023
<u>National</u>	
Conference Chair and Organizer Rac(e)ing Towards Inclusion in Academia and Industry	2021 – 2022
• Research Assistant & Webinar Moderator, EDI Task Force	2021 - 2022
Society for Teaching and Learning in Higher Education (STLHE) • Member & Reading Tutor Learning Disabilities Association of Ontario (LDAO)	2020 - 2021
InstitutionalVice President	2021 - 2022
African Caribbean Graduate Student Association (ACGSA), McMaster University • Adjudicator Life Sciences Interdisciplinary Research Symposia, McMaster University	2018 - 2022
Departmental	
• Scientific Advisory Committee (SAC) Working Group Member ARiEAL Research Centre	2021

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WORK EXPERIENCE

Psychometrist PeakMinds Psychology Services	2025 – present
• Educational Research Assistant/Student Partner Paul MacPherson Institute for Leadership, Innovation and Excellence in Teaching, McMaster University, Hamilton, Canada	2021 – 2023
EEG Research Assistant Language, Memory & Brain Lab, McMaster University, Hamilton, Canada	2021
Advisor: Dr. John Connolly	
• tDCS Research Intern College of Human and Health Sciences, Swansea University, Swansea, Wales	2017
Advisor: Dr. Hana Burianová	
• Research Assistant Infant and Child Studies Centre, Department of Psychology, University of Toronto, Mississauga, Canada	2015 – 2016
Advisors: Drs. Sandra Trehub & Laura Cirelli	
• Piano Instructor Primer levels to Professional	2008 – present
PROFESSIONAL DEVELOPMENT & TRAINING	
Teaching and Learning Scholar Certificate of Completion (100 hours) Paul MacPherson Institute for Learning, Innovation and Excellence in Teaching	2022
Teaching and Learning Foundations Certificate of Completion (36 hours) Paul	2022
 MacPherson Institute for Learning, Innovation and Excellence in Teaching Instructional Skills Workshop (30 hours) Paul MacPherson Institute for Learning, Innovation and Excellence in Teaching 	2022
TCPS 2: CORE Certificate	2021
Certified Peer Reviewer Course Elsevier Research Academy	2020
R Programming Workshop	2016

PROFESSIONAL AFFILIATIONS

• Society of Teaching, and Learning in Higher Education | Society of Music, Perception and Cognition | Canadian Open Parkinson Network

TECHNICAL EXPERTISE

- <u>Hardware</u>: tDCS systems
- Software: Audacity, E-Prime, Jamovi, PsychoPy, SPSS, SuperLab,