



CURRICULUM VITAE

2022

 + 1 647-540-2623

 kingb10@mcmaster.ca

 www.breannaowusu.com

NAME: Bre-Anna K. Owusu

WORK ADDRESS:

Department of Psychiatry and Behavioural Neurosciences
McMaster University
1280 Main St.
Hamilton, Ontario
L8S 4L8

EDUCATIONAL BACKGROUND:

Ph.D.	McMaster University (Neuroscience)	expected 2023
M.Sc. (Distinction)	Swansea University (Cognitive Neuroscience)	2017
B.Sc.	University of Toronto (Psychology)	2015
RCM	Level 10 Royal Conservatory of Music (Piano)	2009

AREAS OF CONCENTRATION:

Research and teaching interests include the perception and cognition of language, memory, time, and music in relation to auditory and motor processing domains. The research uses a variety of methodologies including behavioural paradigms, modelling and tDCS (transcranial direct current stimulation).

PROFESSIONAL ORGANIZATIONS:

Canadian Black Scientists Network	2021–
Society for Teaching and Learning in Higher Education, Research Assistant for EDI Task Force	2021–2022
Society for Music, Perception and Cognition, Mentorship Committee Member	2020–
Learning Disabilities Association of Ontario	2020–2022
Psychonomic Society	2020–
Association for Psychological Science	2020–

EMPLOYMENT HISTORY:

Student Partner, Paul R. Macpherson Institute for Leadership, Innovation and Excellence in Teaching (Drs. C. Grisé and Dr. A. de Bie, supervisors)	2021–2022
Research Assistant, Equity, Diversity & Inclusion Task Force, Society for Teaching and Learning in Higher Education (Dr. J. Mighty, chair)	2021
Research Assistant, Language, Memory & Brain Lab, ARiEAL, McMaster University (Dr. J. Connolly, supervisor)	Winter 2021
Sessional Faculty, School of Interdisciplinary Sciences, McMaster University	2019
Head Graduate Teaching Assistant, School of Interdisciplinary Sciences, McMaster University (Dr. Sunita Nadella, supervisor)	2018–2022
Research Assistant, Infant and Child Studies Centre, Department of Psychology, U. of Toronto (Drs. S. E. Trehub and L. K. Cirelli, supervisors)	2015–2016
Piano Instructor (Primer levels to Professional)	2008–

RESEARCH TRAINING

Ph.D. Candidate, Centre for Advanced Research in Experimental & Applied Linguistics, McMaster U. (Dr. E. Service, supervisor)	2018–
Master's Student, College of Human and Health Sciences, Swansea University (Drs. H. Burianová and T-L. Jones, supervisors)	2016–2017
Research Intern, College of Human and Health Sciences, Swansea University (Dr. H. Burianová, supervisor)	2017
Research Assistant, College of Human and Health Sciences, Swansea University (Dr. R. Horry, supervisor)	2016
Research Assistant, Infant and Child Studies Centre, University of Toronto (Drs. S. E. Trehub, I. Alferink and L. K. Cirelli)	2015–2016

FUNDING AND AWARDS

2022	Umoja Award, African Caribbean Faculty Association of McMaster University	\$1,000
2022	Faculty of Health Sciences Plenary Graduate Student Leadership Award, McMaster University	Winner
2022	Conference Funding, Rac(e)ing Towards Inclusion in Academia and Industry, Office of the Associate Deans, McMaster University, PACBIC, McMaster University	\$3,252.50
2021	Faculty of Health Sciences Plenary Teaching Assistant Excellence Award, McMaster University	Winner
2021	McMaster Student University Teaching Assistant of the Year Award	Ranked Top 5
2021	Faculty of Health Sciences Graduate Plenary PechaKucha Competition, McMaster University	Ranked Top 3
2021– 2022	ARiEAL Research Supplement, McMaster University	\$1,125 CAD
2016	International Merit Postgraduate Scholarship, Swansea University	\$4,000 CAD
2016	International Postgraduate Taught Excellence Scholarship, College of Human and Health Sciences, Swansea University	\$4,000 CAD
2011	Admission Scholarship, University of Toronto	\$1,500

TEACHING

<u>course title</u>	<u>position</u>	<u>department</u>	<u>code</u>	<u>dates</u>
<i>Undergraduate courses:</i>				
Independent Study	Teaching Assistant	Life Sciences	LIFESCI 4A03	2021/22
Research Practicum	Teaching Assistant	Life Sciences	LIFESCI 3RP3	2021/22
Independent Project	Teaching Assistant	Life Sciences	LIFESCI 4B09	2021/22
Independent Thesis	Teaching Assistant	Life Sciences	LIFESCI 4C12/D15	2021/22
Applied Placement	Teaching Assistant/ Guest Lecturer	Life Sciences	LIFESCI 3EP3	2021/22
Advanced Placement	Teaching Assistant/ Guest Lecturer	Life Sciences	LIFESCI 4EP6	2021/22
Independent Study	Teaching Assistant	Life Sciences	LIFESCI 4A03	2020/21
Research Practicum	Teaching Assistant	Life Sciences	LIFESCI 3RP3	2020/21

Independent Project	Teaching Assistant	Life Sciences	LIFESCI 4B09	2020/21
Independent Thesis	Teaching Assistant	Life Sciences	LIFESCI 4C12/D15	2020/21
Applied Placement	Teaching Assistant/ Guest Lecturer	Life Sciences	LIFESCI 3EP3	2020/21
Advanced Placement	Teaching Assistant/ Guest Lecturer	Life Sciences	LIFESCI 4EP6	2020/21
Millennials, Music & the Mind	Sessional Faculty	School of Interdisciplinary Sciences	EXPLORE 3IE1	Fall, 2019
Independent Study	Teaching Assistant	Life Sciences	LIFESCI 4A03	2019/20
Research Practicum	Teaching Assistant	Life Sciences	LIFESCI 3RP3	2019/20
Independent Project	Teaching Assistant	Life Sciences	LIFESCI 4B09	2019/20
Independent Thesis	Teaching Assistant	Life Sciences	LIFESCI 4C12/D15	2019/20
Applied Placement	Teaching Assistant/ Guest Lecturer	Life Sciences	LIFESCI 3EP3	2019/20
Advanced Placement	Teaching Assistant/ Guest Lecturer	Life Sciences	LIFESCI 4EP6	2019/20
Independent Study	Teaching Assistant	Life Sciences	LIFESCI 4A03	2018/19
Research Practicum	Teaching Assistant	Life Sciences	LIFESCI 3RP3	2018/19
Independent Project	Teaching Assistant	Life Sciences	LIFESCI 4B09	2018/19
Independent Thesis	Teaching Assistant	Life Sciences	LIFESCI 4C12/D15	2018/19
Applied Placement	Teaching Assistant	Life Sciences	LIFESCI 3EP3	2018/19
Advanced Placement	Teaching Assistant/ Guest Lecturer	Life Sciences	LIFESCI 4EP6	2018/19

Graduate courses:

The Nervous System	Chapter Presentation	Neuroscience	NEUROSCI 700	fall, 2018
--------------------	----------------------	--------------	--------------	------------

SUPERVISORSHIP:

<u><i>Student</i></u>	<u><i>Years</i></u>	<u><i>Program</i></u>	<u><i>Topic</i></u>
<i>Undergraduate thesis/project students:</i>			
Ava Homiar	2021/22	Life Sciences	Temporal processing in dyslexic musicians

Lior Boguslavski	2020/21	Life Sciences	Video game music and dyslexia
Conan Hu	2019/20	Psychology, Neuroscience & Behaviour	Rhythm and amusia

MENTORSHIP:

<u>Student</u>	<u>Years</u>	<u>Degree</u>	<u>Program</u>
Jonathan Lieberman	2021–2022	M.Sc.	Health Sciences Graduate Student Federation Mentorship Program
Renisha Rodriques	2021–2022	B. Life Sci	Black Student Mentorship Program
Hephzibah Ali	2020–2021	B. Health Sci	Black Student Mentorship Program
Olivia Turner	2020–2021	M.Sc.	Health Sciences Graduate Student Federation Mentorship Program

CERTIFICATES:

Teaching and Learning Scholar Certificate of Completion (100 hours). Issued by Paul R. MacPherson Institute for Learning, Innovation and Excellence in Teaching (2022).

Teaching and Learning Foundations Certificate of Completion (36 hours). Issued by Paul R. MacPherson Institute for Learning, Innovation and Excellence in Teaching (2022).

Instructional Skills Workshop (30 hours). Issued by Paul R. MacPherson Institute for Learning, Innovation and Excellence in Teaching: Internationally Recognized (2022).

TCPS 2: CORE Certificate of Completion. Issued by Panel on Research Ethics (2021).

Certified Peer Reviewer Course. Principles and practices of refereeing. Issued by Elsevier Research Academy (2020).

Professor Hippo-On Campus. Student mental health education program for educators and navigators. Issued by Paul R. MacPherson Institute for Learning, Innovation and Excellence in Teaching (2019).

SCHOLARLY AND PROFESSIONAL ACTIVITIES:

Conference Organizer

Conference Chair, “[Rac\(e\)ing Towards Inclusion in Academia and Industry](#)”. 2022. African-Caribbean Graduate Student Association Inaugural Meeting, McMaster University.

Academic/Non-academic Services

Vice President, African Caribbean Graduate Student Association (ACGSA), McMaster University (2021–2022)

Supported President of ACGSA in overseeing internal operations while managing daily operations. Organized inaugural conference for racialized students, artists, staff, faculty, professionals, and allies, led campus events, and student governance initiatives on African and Caribbean graduate student affairs.

Mentorship Committee Member, Society for Music, Perception and Cognition (SMPC) (2021–present)

Selected to serve on the inaugural mentorship committee to envision, plan and deliver programming with the goal of creating and sustaining robust mentorship networks within the SMPC membership (Chair, Dr. Adena Schachner).

Student Partner, Paul R. Macpherson Institute for Leadership, Innovation and Excellence in Teaching (2021–2022)

Hired by faculty member and post-doctoral fellow in the Macpherson Institute to supervise undergraduates in peer-reviewing anthology submissions for “*50 Years of Stories*” an edited collection of reflections on teaching and learning at McMaster University. Led co-authored chapter initiative to include undergraduate voices in the anthology (Supervisors, Dr. Catherine Grisé and Dr. Alise de Bie).

EDI Task Force, Society for Teaching and Learning in Higher Education (STLHE) (October 2021)

Hosted webinar to present co-authored final report of the STLHE/SAPES Equity, Diversity, and Inclusion Task Force.

Report title: “[Pathways to Justice: An EDI Journey for the STLHE/SAPES Community](#)”.

Research Assistant, EDI Task Force, Society for Teaching and Learning in Higher Education (STLHE) (June 10, 2021)

Organized and hosted webinar, “Enacting Our Shared Values” for STLHE’s annual conference.

Organizer: **Owusu, B.** in collaboration with the Equity, Diversity and Inclusion Task Force. Video coverage of the conference session on [YouTube](#).

Scientific Advisory Committee (SAC) Working Group, ARiEAL Research Centre (2021)

Selected to serve on the SAC Working Group as a graduate student representative in faculty meetings to ensure ARiEAL devises a set of equity, diversity and inclusion (EDI) informed directives during the SAC selection process (Chair, Dr. Daniel Pape).

Adjudicator, Life Sciences Interdisciplinary Research Symposia (2018–2022)

Recruited annually to adjudicate level IV undergraduate poster presentations and final presentation symposium talks (Organizer, Dr. Sunita Nadella).

ACCEPTED CONFERENCE POSTERS, PRESENTATIONS, & PROCEEDINGS:

- 2022. **Owusu, Bre-Anna** and Elisabet Service. “Rhythmic stimulation boosts memory for new word forms in children”. *Mental Lexicon*, Niagara-on-the-Lake, Ontario, Canada.
- 2022. Homiar, Ava, **Bre-Anna Owusu** and Elisabet Service. “The influence of musical training on visuospatial working memory processing in musicians with dyslexia”. *Student Research Day*, McMaster University, Ontario, Hamilton.
- 2021. **Owusu, Bre-Anna** and Elisabet Service. “Can musical rhythm primes boost memory for new word forms in dyslexia?” *Psychonomic Society 62nd Annual Meeting*, virtual conference.
- 2021. Owusu, Bre-Anna. “The He(ART) of Dyslexia: How can Listening to Music Improve Verbal Memory?” [Abstract]. *McGill Journal of Medicine*, 20(1).
- 2021. Owusu, Bre-Anna. “Music and Dyslexia: Please Don’t Stop the Music”. *Black Graduate Student Association Virtual Research Conference*, University of Toronto, virtual conference.
- 2021. Boguslavski, Lior, **Bre-Anna Owusu** and Elisabet Service. “A plan for combining musical training and action video games as a therapeutic tool for dyslexia”. *Student Research Day*, McMaster University, virtual conference.
- 2021. Owusu, Bre-Anna. “Music and memory — Tunes for dyslexia”. *Student Research Day*, McMaster University, virtual conference.

OTHER PRESENTATIONS:

- **Teaching Assistant Welcome**, Paul R. McPherson Institute for Leadership, Innovation and Excellence in Teaching, Panelist on Experienced TA Panel Discussion (September 2022).
- **GenSTEM Conference**, WISE (McMaster Women in Science and Engineering), Virtual (December 2021)
Youth outreach workshop co-presenter for ARiEAL (Advanced Research in Experimental & Applied Linguistics).
- **Three Minute Thesis (3MT)** at 6th edition of Neurosymposium, virtual (June 2021)
Title: *The He(ART) of Dyslexia: How Can Listening to Music Improve Verbal Memory?*
- **Plenary Presentation**, PechaKucha, Faculty of Health Sciences Research Plenary, Hamilton (May 2021)
Title: [*The Cocktail Party Effect: Mixing Rhythms for Dyslexia — \(Ranked Top 3\)*](#)
- **Inaugural GRADflix Competition**, School of Graduate Studies, McMaster University, Finalist (March 2021)
Title: [*Syncing' to the Beat of your Own Brain*](#)

PUBLICATIONS:

Invited Chapters in Books:

- [1] 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*.
- [2] **Owusu, B.**, Ing, E., Mappanasingam, A., Hylton, A., Dhanoa, J., Patel, A., Pavlakos, R. & de Bie., A. (In Press). Student Voices from the Classroom: The Process Towards a Brighter World in Teaching and Learning at McMaster University. Invited chapter in A. de Bie, S. Baptiste, C. Grisé and S. Sammon (Eds.) (Forthcoming, 2022). *Reflections on Teaching and Learning at McMaster: 50 Years of Stories*.

Papers in Refereed Journals:

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