

Chad C. Williams PhD

Neuroscientist | Software Developer |
Statistician | Educator | Data Scientist |

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CAREER OBJECTIVE

With over a decade of experience, I am a neuroscientist and software developer holding a PhD in neuroscience and a degree in teaching in higher education. I am seeking a career in industry, aiming to apply my expertise in neuroimaging, artificial intelligence, and product development to contribute to the company's growth and the attainment of its objectives.

WORK HISTORY

Neuroscientist and Software Developer in Academia

Pursued research ranging from improving the methodological practices of neuroscience by leveraging artificial intelligence to understanding human cognition using EEG. I produced 24 publications, 3 open-source Python packages, and received 19 awards totalling \$214,213.

Psychiatry, Embodiment and Computation Laboratory	2024 – Present
Autonomous Empirical Research Group	2022 – 2024
Theoretical and Applied Neuroscience Laboratory	2015 – 2022
Learning and Cognitive Control Laboratory	2015 – 2016
Human Electrophysiology Laboratory	2012 – 2014

Neuroscientist and Software Developer in Industry

Worked with companies to develop biometric integration and analysis software, neurofeedback protocols, and mobile EEG assessments. I have worked with over 20 biometric devices, including 10 mobile EEG devices, across Python, Matlab, and R.

Inward VR	2023 – Present
Canadian Sports Institute Pacific Society	2022 – 2023
Divergence Neuro Technologies Inc.	2021 – 2022
L3Harris Technologies Inc.	2020 – 2022
Avertus Inc.	2017 – 2018
InteraXon Inc.	2016 – 2017

Educator

Taught three undergraduate level neuroscience and statistics courses, developed a freely available online course on the R statistical program, and conducted many educational seminars and workshops on academic writing and practices.

Brown University	2022 – Present
Chad C. Williams Consulting	2020 – Present
University of Victoria	2016 – 2022

EDUCATION

PhD in Neuroscience University of Victoria	2022
MSc in Neuroscience University of Victoria	2018
BSc in Psychology University of Victoria	2016
Certificate in Learning and Teaching in Higher Education University of Victoria	2022
Certificate of Diversity and Inclusion in the Workplace Coursera	2020

SKILLS

Programming: Python, R, Matlab

Machine Learning: PyTorch, Scikit-Learn

Statistical Programs: R, JASP, SPSS, Excel

Biometric Devices: Electroencephalography (EEG), eye-tracking, electrocardiogram (ECG), heart-rate monitor, respiratory rate, blood pressure

Professional Writing: Academic manuscripts, industrial research reports, ethics applications, grant applications

ACHIEVEMENTS AND AWARDS

I have received a total of 19 awards and scholarships for my academic research, totalling to \$214,213. These awards include, but are not limited to:

Canada Graduate Scholarship – Doctoral (CGS D), NSERC - \$105,000	2018
Research Scholarship (x2), Neuroeducation Network - \$40,000 total	2015 & 2017
Canada Graduate Scholarship – Master’s (CGS M), NSERC - \$17,500	2016
President's Research Scholarship (x6), UVic \$12,000 total	2016 – 2021

GRANTS

I have contributed to over 10 grant applications and was the primary writer for an NSERC-Mitacs Alliance grant that was awarded at \$60,000.

Alliance Grant, NSERC-Mitacs - \$60,000	2021
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