Mason Kadem

mason.kadem@gmail.com | Dundas, ON, Canada

EDUCATION

MCMASTER UNIVERSITY
PhD in Computer Science

MCMASTER UNIVERSITY
MASc in Biomedical Engineering

WESTERN UNIVERSITY
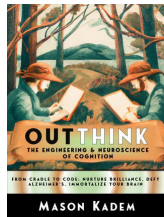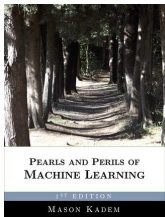**MSc in Neuroscience**

WESTERN UNIVERSITY
HBSc in Psychology

CERTIFICATION

UNIVERSITY OF OXFORD
machine learning theory

WESTERN UNIVERSITY
university learning

COMPUTE ONTARIO
high-performance computing

AUTHORED BOOKS

JOURNAL ARTICLES

Kadem M, et al., IEEE Rev Biomed Eng. 2023
Kadem M, et al., AAAI 2023
ResearchGate | Google Scholar

CONFERENCES

Association for the Advancement of Artificial
Intelligence, Singapore, 2023
Imaging Network Ontario, Canada, 2023

TEACHING

leadership, engineering design, modelling of bio
signals, IP law, research methods, statistics,
programming, web dev, change management,
capstone, telehealth, medical devices,
forensics, cyber infra, ML, DL, cyber ML,
intelligent systems,

INVITED SPEAKER

AI Health Rounds, eHealth seminars,
physiology, biofluid mechanics systems,
supervised ML, AI (internationalx2), CSA x2,
FHIR North

EXPERIENCE

MOHAWK COLLEGE **| Professor of Computer Science**
Dec 2022 – Present
● *profess CS, cyber & DH courses, AI course development, capstone management, academic policy, quality assurance, student success, faculty leadership, industry partnerships, resource planning, full-time (since August 2024)*

VASCULAR AI **| Head of Data Science**
July 2019 – August 2024 | Hamilton, ON
● *brain health, AI/ML leadership, data science management, commercialization, interdisciplinary collaboration*

RESEARCH ONLINE **| Chief Technology Officer**
May 2022 – Present | Dundas, ON
● *strategic tech leadership, biophotonics, stakeholder management, AI ethics, compliance, budget administration, product development, commercialization*

FANSHAWE COLLEGE **| Professor of Machine Learning**
July 2022 – Dec 2023
● *Developed AI/ML courses, taught cyber ML course*

VECTOR INSTITUTE **| Consultant: Development + Coach**
March 2023 – April 2023 | Toronto, ON
● *machine learning course development and teaching*

MCMASTER UNIVERSITY **| Research & Software Team Lead**
Sep 2019 – November 2022 | Hamilton, ON
● *academic leadership, neuroplasticity, multiscale hemodynamic modelling, medical imaging, surgery/interventions, design thinking, rapid prototyping, managing software teams, medicine, multi-omics (genomics/proteomics/metabolomics), blood biomarkers, xAI*

SELECTED AWARDS

2023	MITACS Entrepreneur($90,000) + CIHR PhD Award ($120,000)
2022	NSERC Vanier Nominee (Federal Competition)
2021	QEII-GSST ($10,000) + E.M. Dalley Fellowship($5000)
2016	Varsity Athlete, Gold Medalist, Captain

SELECTED SERVICE ACTIVITIES

Canadian Space Agency **| Invited Neuroscience Consultant**
JACC, MEDTEQ+ **| AI reviewer**
HSGSA, Jack Chambers PS **| President**
Thames Valley District School Board **| Judge & Speaker**
The Clinic **| Health Startup Mentor**

SKILLS

Leadership & Management academic leadership | change management | commercialization | IP law | IP law | regulatory compliance | program management | curriculum development | supervision | budget admin | strategic planning | quality assurance | stakeholder engagement | policy implementation | conflict resolution | industry partnerships | student success | accreditation

Technical ML/AI/statistics | software development | wet lab | medical imaging | signal processing | research methods