# Davood Wadi

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## Interests

- Large Language Models
- Computer Vision
- Reinforcement Learning

## Top Skills

- Deep Learning (PyTorch, TensorFlow, Keras)
- Python, R, JavaScript
- SQL

## Education

**2019 - 2023**  Ph.D. in Marketing and AI - HEC Montréal

Best 2023 Ph.D. Thesis Award Nominee
IVADO PhD Excellence Scholarship
IVADO Scientist in Residence Scholarship
2019 Saskatchewan Innovation & Opportunity Scholarship

## Employment

**2023**  Lecturer - HEC Montréal

*MATH 60629A - Machine Learning I: Large-Scale Data Analysis* and Decision Making
Transformers, Supervised and Unsupervised learning,
Reinforcement Learning, Recommendation Systems

**2019 - 2023**  Artificial Intelligence Researcher - Tech3Lab, HEC Montréal

Incorporating AI methods in analyzing psychophysiological data from eye-tracking,
EEG, fMRI, and GSR sources to understand consumer behavior and improve UX.
Leading a team of master's students in academic research

**2022**  Scientist in Resident - Vope Medical

Leading the R&D research team in developing the core AI product
State-of-the-art AI techniques to optimize performance

**2016 - 2019**  Marketing Director - BaharAram.com

Led a team of marketing professionals to execute successful digital marketing campaigns
SEO, SEM, CRM, email marketing, and social media advertising
Analyzed customer insights and market trends to refine product offerings,
resulting in a 166% boost in sales.

**2011 - 2016**   Full-stack Developer- BaharAram.com

Front-end (HTML, CSS, JavaScript, React, Angular, Vue.js)
Back-end (Node.js, Python, Ruby on Rails, Java, .NET)
Databases (SQL, NoSQL)
Version control (Git)
RESTful APIs
Web development frameworks (Express.js, Django, Ruby on Rails)
DevOps and deployment tools (Docker, Jenkins, AWS, Azure)
Testing frameworks (Jest, Jasmine, Selenium)

# Research

**2022**   Read the signs: Towards Invariance to Gradient Descent's Hyperparameter Values

ICML 2022 (Phase I accept)


**2021**   LabSynth: Label Synthesis Algorithm for AI Domains with Limited Labelled Data

Text Block Segmentation Competition ICPR2020 ($2^{nd}$ place overall)

**2020**   I2D: Alternative Representation of Eye-Tracking Stream Data as 2D Images


**2020**   AOIgen: Automatic Website Area of Interest Detection


**2019**   Cognition-Based Auto-Adaptive Website User Interface in Real Time