

Yavuz Shahzad

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Skills

Programming Languages: Python, R, SQL, L^AT_EX.

Libraries and Frameworks: Pandas, PySpark, Scikit-learn, Seaborn, Streamlit, Tidyverse.

Developer Tools and Platforms: GitHub, Databricks, Azure, Jupyter Notebook, Excel (intermediate).

Non-technical: Outstanding communication skills; strong collaborative skills and attention to detail.

Education

McGill University

BA in Statistics, Minor in Psychology

Montreal, QC

2022 - 2026

- GPA: 3.66/4.0

- **Coursework:** Mathematical Statistics I, Experimental Design, Statistical Learning, Honours Probability, Honours Analysis I & II, Honours Algebra I & II.

Experience

Undergraduate Researcher

McGill Clinical and Health Informatics Group

Montreal, QC

Aug 2025 – Present

- Part of the Data-Driven Decision Modeling (D3Mod) Lab, developing supervised machine learning models to predict individualized hemoglobin recovery after blood donation.

Data Science Intern

Manulife

Toronto, ON

May 2025 – Aug 2025

- Developed time series models (Prophet) to forecast new regular premiums for life insurance products, reducing MAPE by 45% compared to legacy models.
- Conducted exploratory data analysis to recommend new lead types for proactive outreach to financial advisors and implemented the delivery of leads to wholesalers in a production PySpark pipeline.
- Presented leads pipeline and forecasting models to senior leadership, incorporating stakeholder feedback.

Undergraduate Researcher

Brain Research and Imaging of Neurorehabilitation Lab: McGill University

Montreal, QC

Jan 2022 – Sept 2024

- Cleaned and analyzed data, conducted literature review, and drafted a manuscript about a novel treatment paradigm for those with chronic stroke.
- Analyzed neural markers of long-COVID survivors using a threshold-based β -burst detection algorithm.
- Served as a consultant to colleagues, refining analysis methodologies to ensure statistical rigor.

Research Intern

J. Philip Kistler Stroke Research Center: Harvard Medical School

Boston, MA

Jun 2022 – Aug 2022

- Performed data abstraction from the medical records of over 200 patients. Study assessed the efficacy of left atrial appendage closure in preventing brain hemorrhages in atrial fibrillation patients.

Publications

- Milot, M.-H., Palmeris, S., **Shahzad, Y.**, Corriveau, H., Tremblay, F., Boudrias, M.-H.

Long-term benefits of a tailored strength training intervention on arm function in chronic stroke survivors: a follow-up study. Journal of Rehabilitation Medicine – Clinical Communications, Vol. 8, February 2025.

<https://doi.org/10.2340/jrm-cc.v8.42941>

Awards and Honours

NSERC Undergraduate Student Research Award (\$8,800)

Apr 2024

- Granted by the Natural Sciences and Engineering Research Council of Canada (NSERC), the USRA was awarded for research under the supervision of Dr. Marie-Hélène Boudrias of McGill's BRAIN Lab.

Dean's Honour List

Apr 2022

Community Involvement

Editor: McGill Science Undergraduate Research Journal

2022 - Present

- Facilitate the peer review of manuscripts and ensure submissions are of publication quality.
- As former Managing Editor, lead MSURJ's outreach portfolio and ensured that the journal received numerous manuscript submissions.

Council Member: SUMS McGill

2024 - 2025

- Participate in and vote during the meetings of McGill University's Society of Undergraduate Mathematics and Statistics Students (SUMS).

Work Eligibility

Citizenships: USA, Canada, Turkey.