

Jerry Fu

Montreal, QC, Canada | French, English, Mandarin | References available
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A curious, friendly, and organized problem solver, passionate about STEM and medicine.

Education

2020–2025 Collège Regina Assumpta – Grades 7 to 11, Natural Sciences and Robotics

2025–2027 Collège Jean-de-Brébeuf – IBDP + DEC Pure and Applied Sciences (pre-uni)

Work Experience

2022–present FIRST Robotics Competition – Mentor and former Student, Team 3990

- Lectured computer vision and deep learning to junior team members.
- Pioneered object tracking and autonomous systems on the robot.
- Multiple consecutive Regional Winners | 2024 World Championship Impact Award finalist.

2023, 2024 DODO Wheels – Sole Software Developer

- 2024 summer | Developed Doublestar Tire's Canadian website (<https://doublestartyre.ca>).
- 2023 summer | Managed, updated, and populated internal inventory through CPanel as needed.

Research Experience

2025–present CHUM Research Center – Research Assistant and Clinical Observership

- Analyzed regional pleural strain via lung ultrasound elastography to establish normative values and their correlations with tidal volume in healthy volunteers.
- Shadowed in the Intensive Care Unit (ICU) and Operating Room, gaining exposure to anesthesia, critical care, and surgical workflows.

Publications/Abstracts

CHUM Research Center - SFAR Congress

- *Relation entre la déformation pleurale régionale mesurée par élastographie pulmonaire et le volume courant chez des volontaires sains.* S. Chraïbi, K. El Berhoumi, A. Danatoiu, J. Fu, P. Vianna, M.H. Roy Cardinal, G. Cloutier, M. Girard (presenting author). Presented at the 2025 Annual Congress of the French Society of Anesthesia and Critical Care (SFAR) on Sep 17, 2025, in Paris, France.

Volunteer Experience

- Developed a real-time score-tracking application for our in-house off-season robotics competitions.
- Volunteered at our in-house FIRST event and presented our robotics program at our open house.
- Anges Gardiens volunteer – provided peer guidance to new students at Collège Regina Assumpta.
- Volunteer photographer for dance show at Collège Regina Assumpta in intricate lighting conditions.

Extracurriculars

- **Medical Inference via Vector Embedding** – Personal research project developing an AI system using vector embeddings to model symptom-condition relationships for disease prediction.
- **HackQC 2024** – Developed a DiscordJS chatbot using OpenAI LLMs and LangChain to query Quebec Open Data, providing users with fast, searchable information.
- **2025-2026 CRC Robotics** – Led the programming team and developed autonomous systems.
- **2024 & 2025 Secondaire en spectacle** Performed piano-comedy skits with a friend, 400+ audience. Local winner.

Skills

- JavaScript/TypeScript, OAuth
- Java, Kotlin (Multiplatform)
- Python, PyTorch, OpenCV, AI/ML
- React, HTML, SCSS, Express.js
- Photography and Adobe Lightroom
- Experience with tools, machines, and electronics

Certifications

- Good Clinical Practice (CITI)
- Éthique de la recherche (MSSS)
- Responsible Conduct of Research
- Red Cross Standard First Aid Level C
- Red Cross Psychological First Aid