

# HARSHANA RUNJEET

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## SKILLS

- Bsc. Physics (ongoing)
- Python (Advanced), C++ (In progress)
- Knowledge of statistical physics
- Data processing with pandas, numpy, and scipy
- Udemy courses in desktop applications, Python, and C++ (Ongoing)
- Version control with Git and code sharing on GitHub
- Bilingual (French/English)
- Data manipulation and visualization with matplotlib
- Qiskit

## DATA SCIENCE EXPERIENCE:

### QUANTUM ALGORITHM DEVELOPER

SCIL GROUP, UNIVERSITÉ DE SHERBROOKE (T1, WINTER 2024 - ONGOING)

- Usage of scilpy library
- Learning of diffusion MRI theory and tractography
- Application of quantum computing in neuroinformatics, focusing on combinatorial problems in graphs
- Scientific presentations
- Writing of scientific reports
- Active collaboration in developing code teams

### RESEARCH ASSISTANT IN SEMICONDUCTOR PHYSICS

PR.MATHIEU JUAN'S GROUP, UNIVERSITÉ DE SHERBROOKE (T0 ,SUMMER 2023)

- 3D simulation software QTCAD and Gmsh
- Analysis for theoretical and experimental comparative tests
- Learning in semiconductor physics
- Precise writing of scientific reports
- Skills in scientific presentation

## ADMINISTRATIVE AND LOGISTICS EXPERIENCE:

### ADMINISTRATIVE ASSISTANT,

SAATVIK CUISINE VÉGÉ, FAMILY BUSINESS (2018-ONGOING)

- Automation of recipe calculations via Excel
- Financial management and expense tracking
- Invoicing and preparation of payroll sheets
- Proactive stock management
- Research in finance and investments

### LIBRARY CLERK,

BIBLIOTHÈQUE GEORGETTE-LEPAGE, BROSSARD (2020-2022)

- Welcome and assistance to users
- Efficient management of book loans and returns
- Methodical classification according to the Dewey Decimal Classification

## EDUCATION :

### BACHELOR OF PHYSICS,

UNIVERSITÉ DE SHERBROOKE, SHERBROOKE, QC (AOÛT 2022 – ONGOING)

- Relevant courses: Quantum Mechanics I, Statistical Physics I, Scientific Computing, Medical Physics, Quantum Computing and Information (ongoing), Experimental Physics II, etc.

GPA : 3.34/4.0

### COLLEGE DIPLOMA IN PURE AND APPLIED SCIENCES,

CEGEP ÉDOUARD-MONTPETIT, LONGUEUIL, QC (2020 – 2022)

- Relevant projects: Creation of a classic video game in HTML and JavaScript  
Relevant courses : Introduction to Theoretical Physics, Multivariable Calculus

## SCHOLARSHIPS :

- QSciTech Scholarship for a research internship on quantum wells in semiconductors (Internship T0)
- Algo-Lab Scholarship for a quantum computing application internship in quantum tractography (Internship T1)

## PROJECTS :

**Codes** : [harshana20011 \(github.com\)](https://github.com/harshana20011)

**Chronicles** : [Harshana Runjeet, auteur sur Le Val-Ouest](#)