

Anish R. Verma

Curriculum Vitae

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Education

- 2022 **Project Management Professional (PMP)**, *Project Management Institute*.
2019 - 2021 **M.Sc.**, *Guelph-Waterloo Physics Institute*, Physics.
2013 - 2018 **B.Sc. Honours**, *Simon Fraser University*, Chemical Physics.

Industry Experience

- Feb. 2022 - Present **Chief Operating Officer / Program Manager** at **STEM Fellowship**
- Directing the operations of the organization, pushing forward its four pillars..
 - Worked with the managing team, board of directors, and stakeholders to grow of the number of programs, funding, and number of organization members.
 - Initiated the adoption new technologies and train the youth of Canada in artificial intelligence, machine learning, blockchain, quantum computing, and more.
- Oct. 2021 - Mar. 2022 **Business and Project Manager** at **Quantum Algorithms Institute**
- Through a series of strategic workshops, initiatives, and research, I successfully generated company leads that can benefit from quantum computing and quantum-inspired solutions.
 - Designed and implemented formal business operations processes.
 - Designed workshops with topics ranging from statistics to modern machine learning methods.
- Feb. 2020 - Jan. 2022 **Chief Data Officer / Project Manager** at **STEM Fellowship**
- Directed several large teams in organizing national **data challenges**.
 - Led and oversaw data analytics for the organization.
 - Designed workshops with topics ranging from statistics to modern machine learning methods.
- Jan. 2020 - Present **Research Scientist** at **1QBit**
- Mathematically modeled risk for futures and analyzed price moves in a series of manuscripts.
 - Implemented quantum algorithms for computational finance problems.
 - Researched novel mixture distribution for risk in automated trading algorithm.
- Sep. 2016 - Sep. 2019 **SFU Science Undergraduate Research Journal Executive Editor**
- Managed, published, promoted, and financed the **Journal's** operations.
 - Led a team of ~ 20, in communicating with authors, referees, and sponsors

Publications

- Sep. 2022 **Sentiment-Based Analysis of Twitter Data for the Black Lives Matter Movement**, J. Peng, J. Fung, M. Murtaza, A. Rahman, P. Walia, A. Verma. *STEM Fellowship J.* <https://doi.org/10.17975/sfj-2022-015>
- Aug. 2021 **An Analysis of the COVID-19 Infodemic: The Extensive and Disproportionate Impact of Public Behaviour on Sentiment Towards Hydroxychloroquine**, E.W.L. Chan, G. Choi, K.S.K. Wong, S. Zeng, A. Verma. *STEM Fellowship J.* <https://doi.org/10.17975/sfj-2021-001>
- Jan. 2021 **A Comparison of Text Sentiment and Market Sentiment US Treasury 10-Year Note Futures and Changes to Cash in Circulation using Sentiment Analysis and the CME Market Sentiment Meter**, P. Hong, A. Verma *1QB Information Technologies Inc.* [White Paper](#)

- Jan. 2021 **CME Market Sentiment Meter Historical Market Analyses - Natural Gas: 2014 North American Cold Wave**,
A. He, A. Verma *1QB Information Technologies Inc.* [White Paper](#)
- Oct. 2020 **Trading Algorithm Navigation Using a Mixture Distribution Risk Model**,
A. Milne, A. Verma, et al. [White Paper](#)
- Aug. 2020 **CME Market Sentiment Meter Historical Market Analyses - 2019 Federal Funds Rate Cuts**,
A. Verma, A. Milne *1QB Information Technologies Inc.* [White Paper](#)
- May. 2020 **Market Reactions to COVID-19 - A review of Q1 2020 as seen in the CME Market Sentiment Meter**,
A. Verma, A. Milne. *1QB Information Technologies Inc.* [White Paper](#).
- Apr. 2020 **CME Market Sentiment Meter Historical Market Analyses - September 14, 2019 Abqaiq-Khuraish Attack**,
A. Verma. *1QB Information Technologies Inc.* [White Paper](#).
- Aug. 2017 **Collective and Single-Particle Degrees of Freedom in Rotating Nuclei**,
A. Verma, K. Starosta. *Can. J. Chem.* [doi:10.1139/cjc-2017-0275](https://doi.org/10.1139/cjc-2017-0275).

Awards and Honours

- 2020 **TakingITGlobal** Rising Youth Grant.
- 2020 **QEII-GSST** The Queen Elizabeth II Graduate Scholarships in Science and Technology.
- 2020 **OGS** Ontario Graduate Scholarship (Declined).
- 2020 **Mitacs** Accelerate Fellowship.
- 2019 **NSERC** Canada Graduate Scholarships-Master's.
- 2018 **SFU** Convocation Speaker for the Faculty of Science Graduating Class of 2018 ([Video](#)).
- 2017 **CAP** Division Oral Finalist: 2nd Place in the Division of Nuclear Physics.
- 2017 **CINP** Undergraduate Research Scholarship.
- 2017 **NSERC** Undergraduate Student Research Award.
- 2017 **SFU** Melanie O'Neill Undergraduate Research Award.
- 2016 **SFU** Chemistry Undergraduate Research Presentation Award.

Computing Skills

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| Languages | Python, Fortran, MATLAB, Mathematica, Bash. |
| Software | Microsoft Office, LibreOffice, L ^A T _E X, Photoshop, InDesign, GIMP, Inkscape. |
| OS | Linux, MacOS, Windows |

Conference/Workshop Organization

- Dec. 2021 **Quantum Algorithms Institute – WESTAC Quantum Computing for Transportation and Logistics Workshop Series** - Lead Organizer
- July. 2021 **Undergraduate Big Data Day 2021** - [Director and Organizer](#)
- Feb. 2021 **High School Big Data Day 2021** - [Director and Organizer](#)
- July 2020 **Undergraduate Big Data Day 2020** - [Director and Organizer](#)

Conference Presentations

- Sep. 2020 **Tech Under Twenty Expo** - Invited Panelist.
- Aug. 2017 **UBC & SFU Physics Undergraduate Conference** - Oral Presentation.

- May 2017 **Canadian Association of Physicists Congress** - [Oral Presentation](#).
 Feb. 2017 **Winter Nuclear and Particle Physics Conference** - [Oral Presentation](#).
 Oct. 2016 **Fall Meeting of the American Physical Society DNP** - [Poster Presentation](#).

Teaching Experience

- 2022 **University of Toronto – Institute for Management & Innovation**, *Quantum Computing and its Applications in Finance*, Workshop.
 2021 **University of Toronto – Institute for Management & Innovation**, *Supervised and Unsupervised Machine Learning*, [Workshop](#).
 2019 **University of Guelph**, *Physics for Life Sciences*, Teaching Assistant.
 2017 **Simon Fraser University**, *Physics Laboratory II*, Teaching Assistant.
 2013 - 2018 **Private**, *Physics, Chemistry, Mathematics, Statistics*, Private Tutor.

Volunteering

- Sep. 2017 - **Chemistry Student Society (CSS) Executive**
 Aug. 2018
 - Planned and hosted series of networking events, research lab tours, and more.
 - Promoted local industry and research opportunities to foster a stronger student community.
- Nov. 2016 **Science Outreach Volunteer**
 - Participated in several events to promote the Faculty of Science at SFU, including a [video](#) in which I appear representing the Department of Physics.
- Sept. 2015, **Science FROSH Leader**
 2016, 2017
 - In annual weekend long events, I led groups of ten science freshmen to start their university career as part of a larger community and enrich their overall experience.
 - A video showing the success of the 2017 event may be found [here](#).

Interests

- Art Shows I enjoy attending local pop-up art shows, and helped in setting up a [2cream2sugar](#) SHOWCASE.
 Activities Hiking, Traveling, Photography.