

Christopher Gilbert

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MIT undergraduate pursuing Quantum Information Science and Computational Physics

Experience

- **Programming Adventures** | Weekly collaborative think-tank sessions with Stephen Wolfram, assisting in solving problems in topics such as neural networks and recursive functions.
- **Wolfram Emerging Leaders Program** | Year-long intense mathematical research on a student team studying functional roots | 2024–2025 | [Project](#)
- **Wolfram Summer Research Program** | *Novel Minimal Universal Classical and Quantum Gates* | 2024 | [Project](#) | [Paper](#)
- **World Science Scholar** | Completed two years of challenging coursework in topics such as general relativity, computational analysis, and evolutionary medicine | 2021–2024
- **MIT Beaverworks Summer Institute** | Quantum Software | 2023 | [Presentation](#)
- **University of Waterloo Quantum School for Young Students** | 2021
- **Author** | *Quantum Mechanics for Kids: a Humorous, Easy-to-Read, Math-Free Book on a Very Perplexing Subject* | 2019 | [Goodreads](#)

Awards and Honors

- **Davidson Fellows Scholarship** | For *Novel Minimal Universal Classical and Quantum Gates* | 2025
- **Rise for the World** | Global Finalist | for Creating STEM Communication Videos | 2023
- **Samsung Solve for Tomorrow Challenge** | 1st in Maine, winning \$14,000 for Greely High School | Treating water for PFAS chemicals | 2023
- **National Merit Scholarship Winner** | 2025
- **Presidential Scholars Candidate** | 2025
- **XVII Golden Key International Piano Composition Competition** | “For Lewiston” | 2023
- **Sempre Musick Winter Serenade Competition** | 1st Place | 2024 | [Organ Performance at Methuen Memorial Hall](#)
- **Kotzschmar Memorial Trust Music Scholarship** | For Organ Performance | 2023
- **National History Day in Maine** | Year-long research projects for the National History Day Competition:
 - [Leo Szilard and the Atomic Bomb](#) | 1st place website | 2019

- [George Lemaitre and the Big Bang Theory](#) | 1st place website | 2020
- [Claude Shannon and Information Theory](#) | 2nd place website | 2021
- [Bohr, Einstein, and the Debate of Modern Physics](#) | 1st place paper | 2022
- **National Latin Exam** | Gold Medal | 2024
- **All Eastern Honor Choir** | 2022
- **Nonfiction Authors Association Book Award** | Silver Medal | 2019
- **Maine Celebration of Young Musicians for Organ Performance** | 2019
- **Children’s Choir PortOpera’s production of *Carmen*** | 2018
- **3M Discovery Education Young Scientists Lab Competition** | 1st in Maine | 2018

Service and Extracurriculars

- **Mentor** | Junior World Science Scholars | 2023–2024
- **Junior World Science Scholars Workshop Presenter** | “Quantum Computing: Using Physics to Exponentially Increase Computing Power” | 2023
- **Author Talks and [YouTube Channel](#)** | On topics like quantum mechanics, calculus, artificial intelligence, and more; to spark curiosity for math and science in kids and in everyone | 2019–2024
- **Guest Organist** | Basilica of Saints Peter and Paul, Lewiston, Maine | 2023–2025 | [Recording](#)
- **Psalterium Institute of Maine Chamber Choir** | 2023–2025
- **Basilica of Saints Peter and Paul Choir** | 2023–2025
- **Musical Volunteer** | Brentwood Rehab Center | 2023–2025