

# WADE LAMBERSON

College Station, TX (Open to remote or relocation) • [contact@wlamberson.com](mailto:contact@wlamberson.com)  
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## PROFESSIONAL SUMMARY

PhD candidate in Physics (expected 2028) with quadruple majors in Software Development, Electrical Engineering, Mathematics, and Physics. Recognized G4CMP expert in the Toback Research Group at Texas A&M University. Currently leading the extension of the open-source G4CMP package to model and predict qubit decoherence — a core challenge in building scalable quantum computers. Seeking a Software Engineer or Research Scientist role at Google Quantum AI. Open to remote opportunities or relocation.

## EDUCATION

### Ph.D. in Physics

Expected 2028

Texas A&M University, College Station, TX

- Toback Research Group
- Thesis: Extending G4CMP for qubit decoherence modeling and quantum simulation
- Master's in Physics awarded en route to PhD

### B.S. with Four Majors

2023

Harding University, Searcy, AR

Majors: Software Development (Computer Science), Physics, Electrical Engineering, Mathematics

## RESEARCH EXPERIENCE

### G4CMP Expert & PhD Researcher

2023 - Present

Toback Research Group, Texas A&M University

- Selected as the primary expert and lead developer for G4CMP, a widely-used open-source Geant4 extension used globally to simulate phonon and charge transport in cryogenic semiconductors for superconducting quantum devices.
- Designing and implementing new modules to model and predict qubit decoherence, enabling more accurate quantum simulation workflows.
- Collaborating directly with the core G4CMP development team on code enhancements and experimental validation.
- Integrating high-performance C++, parallel computing, and quantum physics expertise to bridge hardware modeling with practical quantum software needs.

## SELECTED INTERNSHIP

### NASA ScaN Intern - Q-STAR Lab

June - August 2023

Quantum Space Telecommunications and Algorithms Research Lab, Goddard Space Flight Center

- Performed benchmarking tests on Amazon Braket, NASA's newly acquired cloud-based quantum computing service
- Contributed to quantum communications research as part of the ScaN Internship Program

## TECHNICAL SKILLS

- Quantum Frameworks: Cirq (Google), Qiskit, quantum simulation & noise modeling
- Core Tools: G4CMP, Geant4, high-performance C++, Python
- Engineering: Electrical hardware design, cryogenic semiconductor modeling
- Additional: Parallel/GPU computing, error correction, decoherence modeling, open-source development

## ADDITIONAL INFORMATION

- Available for full-time role starting Summer/Fall 2028
- Open to remote opportunities or relocation — currently based in College Station, Texas while completing my PhD at Texas A&M University
- Portfolio and quantum simulation projects: [wlamberson.com](http://wlamberson.com)