

SPENCER VAN KOEVERING

sv493@cornell.edu

EDUCATION

Cornell University

Ph.D. Computer Science · 2023–2029 expected

Whitman College

B.A. Computer Science with Honors · B.A. Mathematics with Honors · 2017–2021

Minors: Philosophy, Biology

Summa Cum Laude; GPA 3.9

FELLOWSHIPS

Logic in Computing Systems Logic Mentoring Workshop Student Attendee Grant 2024

Bowers CIS Deans Excellence Fellowship 2023–

Alexander J. Anderson Merit Scholarship 2017–2021

National Merit Scholar 2017–2021

AWARDS

NSF Graduate Research Fellowship Program Honorable Mention 2025

Outstanding Teaching Assistant Award — Automata Theory, Prof. Dexter Kozen 2025

Graduated Summa Cum Laude from Whitman College 2021

Honors in Computer Science 2021

Honors in Mathematics 2021

LANGUAGES

Python Java C++ MATLAB SQL TypeScript Rocq

OCaml

PUBLICATIONS

- 1 Spencer Van Koevering, Wojciech Różowski, and Alexandra Silva. Weighted GKAT: Completeness and complexity, 2025. arXiv:2504.20385 [cs.LO].
- 2 Spencer Van Koevering, Yiwei Lyu, Wenhao Luo, and John Dolan. Provable probabilistic safety and feasibility-assured control for autonomous vehicles using exponential control barrier functions, 2022. arXiv:2205.03744 [cs.RO].
- 3 Spencer Van Koevering, Cheng Zhang, Tobias Kappe, and Alexandra Silva. CF-GKAT completeness: Goto considered equational. Manuscript in preparation, 2026.

RESEARCH & INDUSTRY EXPERIENCE

- Amazon** May 2025–August 2025
Applied Science Intern Santa Clara, CA
- Amazon** May 2022–June 2023
Software Development Engineer Seattle, WA
- Carnegie Mellon University Robotics Institute** September 2021–May 2022
Research Assistant
- Carnegie Mellon University Robotics Institute** May 2021–September 2021
NSF REU Scholar
- Amazon** June 2020–November 2020
Software Development Engineer Intern Seattle, WA
- Fred Hutchinson Cancer Research Center** June 2019–September 2019
Research Assistant Intern Seattle, WA

CONFERENCES AND TALKS

- Weighted GKAT: Completeness and Complexity** July 2025
EATCS International Colloquium on Automata, Languages, and Programming Aarhus, Denmark
- Provable Probabilistic Safety and Feasibility-Assured Control for Autonomous Vehicles using Exponential Control Barrier Functions** June 2022
IEEE Intelligent Vehicles Symposium Aachen, Germany

SERVICE

- Cornell University** 2025
TACAS Artifact Review Committee Ithaca, NY
- Cornell University** 2024–
Research Night Speaker Ithaca, NY
- Whitman College** 2023–
Graduate Student Mentor
- Woodland Park Zoo** 2014–2017
Volunteer Seattle, WA