TRAVIS Q. MCGAHA

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Teaching Interests

My primary teaching interests are in systems and introductory programming. Other interests include software engineering and compilers.

Education

University of Washington — **Sept 2016 – March 2021**

- Master of Science in Computer Science & Engineering (March 2021) — **GPA: 3.89**
- Bachelor of Science in Computer Engineering (June 2019) — **GPA: 3.84 (Dean's List)**

Teaching Experiences

University of Pennsylvania

Spring 2025	Instructor	CIT 5950: Computer Systems Programming Significantly changing lectures and assignments to have more frequent assignments and move more towards modern C++.
	Co-instructor	CIS 4480/5480: Operating Systems With Joel Ramirez
Fall 2024	Co-Instructor	CIS 2400: Introduction to Computing Systems Significant changes to pivot the course to a new assembly language (RISC-V) With Joel Ramirez
	Co-Instructor	CIS 1100: Introduction to Computer Programming (Python) Significantly modified lectures, assignments and course structure to move from Java to Python and with a partial flipped classroom. With Harry Smith
Spring 2024	Instructor	CIS 3800: Operating Systems Significant changes to the course assignments
	Instructor	CIT 5950: Computer Systems Programming
Fall 2023	Instructor	CIS 3800: Operating Systems Significantly modified lectures
Spring 2023	Instructor	CIT 5950: Computer Systems Programming
	Co-Instructor	CIS 1100: Introduction to Computer Programming With Harry Smith
Fall 2022	Instructor	CIS 2400: Introduction to Computer Systems Significantly modified lectures, assignments and infrastructure. Implemented mastery learning practices for assignments and the midterm.
	Instructor	CIT 5950 online: Computer Systems Programming

Spring 2022	Instructor	CIT 595: Computer Systems Programming Overhauled the course with a new topic list, lectures, assignments and infrastructure
	Co-Instructor	CIS 110: Introduction to Computer Programming With Harry Smith
Fall 2022	Co-Instructor	CIS 240: Introduction to Computer Systems With CJ Taylor Delivered guest lectures, developed course infrastructure, and created weekly supplemental lectures.

University of Washington, Seattle

Spring 2021	Co-Instructor	CSE 333: Systems Programming With Justin Hsia
Autumn 2020	Teaching Assistant	CSE 160: Data Programming Oversaw grading of homeworks across ten other teaching assistants. Developed and maintained Gradescope tools for grading.
Summer 2020	Instructor	CSE 333: Systems Programming Class size of 68 students. Hired and mentored six teaching assistants.
Spring 2020 **Winter 2020** **Autumn 2019** **Spring 2019**	Teaching Assistant	CSE 333: Systems Programming Delivered seven guest lectures, developed course infrastructure, and oversaw project grading. **Awarded the Bob Bandes Teaching Award for 2019-2020**
Winter 2019	Teaching Assistant	CSE 120: Computer Science Principles
Autumn 2018	Teaching Assistant	CSE 333: Systems Programming
Summer 2018	Teaching Assistant	CSE 373: Data Structures and Algorithms
Spring 2018	Teaching Assistant	CSE 351: The Hardware/Software Interface
Winter 2018	Teaching Assistant	CSE 143: Computer Programming II
Autumn 2017	Tutor	CSE 143: Computer Programming II Met with a student weekly to go over difficult topics in the course.

Departmental Service

University of Pennsylvania:

- **Computer Science Education Seminar (Spring 2023 - Current):**
  I started and am currently running a roughly weekly seminar for teaching track faculty and interested individuals.
- **CIS Teaching Track Hiring Committee (Fall 2022 - Current):**
  Active member of the committee for the 2022-2023, 2023-2024, and 2024-2025 academic years.
- **CIS TA Hiring Infrastructure (Fall 2023 - Current):**
  I maintain the infrastructure used for sending out offer letters to TAs and keeping track of the offer statuses.
- **Undergraduate Curriculum Committee (Fall 2023 - Current):**
  This involves meeting and discussing graduation requirements, and what should count as technical electives.

Professional Training

University of Washington:

- **Equitable and Inclusive Computer Science Pedagogy (CSE 492):** A semi-weekly seminar that discusses topics in the design and implementation of computer science courses through an equity and inclusion lens.
- **Computer Science Education Seminar (CSE 590E):** A weekly seminar that meets every quarter to discuss new techniques and research in the field of computer science education.
- **CSE TA Training:** Participated in training for improving teaching effectiveness. Covers various scenarios and techniques such as active learning, handling academic misconduct, and methods to promote inclusivity.

Awards and Honors

- **Bob Bandes Memorial Student Teaching Award**, for outstanding performance as a teaching assistant. **2019-2020**
- **CSE Award for Excellence**, awarded based on academic merit. **2017-2018**

Professional Affiliations

- **Association for Computing Machinery Member** (ACM)
- **ACM Special Interest Group on Computer Science Education** (SIGCSE)