Christopher Kauffman

Associate Teaching Professor
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Education

Ph.D. Computer Science, University of Minnesota, Twin Cities. 2013.
Dissertation: Computational Methods for Protein Structure Prediction and Energy Minimization.

M.S. Computer Science, University of Minnesota, Twin Cities, 2010.

B.S. Computer Science, University of Minnesota, Twin Cities, 2004.
Minor in Mathematics. Graduated with High Distinction.

Teaching Experience

Teaching samples available at `http://cs.umn.edu/~kauffman/teaching-samples`

Associate Teaching Professor *Fall 2021 - Present*
Department of Computer Science, University of Minnesota, Twin Cities Minnesota.

- Full-time Teaching (80%) and Service (20%) faculty positions. Course load of 5 sections per year. Multi-year renewing contract-based appointment, granted via promotion process, approved by College of Science and Engineering Dean.
- Taught undergraduate and graduate courses on Machine Architecture (CSCI 2021, C and Assembly), Operating Systems (CSCI 4061, Unix/C), Parallel Computing (CSCI 5451) Advanced Functional Programming (CSCI 2041, OCaml), Discrete Math (CSCI 2011, Theory) and Introductory Programming (CSCI 1103, Java).
- Lectures sizes range from 30 to 250; focus on active learning strategies during lecture including in-class participation credit, live coding, and group problem sets. Out-of class work comprises comprehensive programming reflecting real-world applications.
- Provided department service on the Curriculum Committee, Computing/Web Infrastructure committee, contributed to Ethics Working group which planned incorporation of ethics topics into the CS major, liaison with the college IT department to ensure teaching technology needs of faculty are met.

Lecturer *Fall 2017 - Spring 2021*
Department of Computer Science, University of Minnesota, Twin Cities Minnesota.

- Full-time Teaching (100%) faculty positions. Course load of 5 sections per year. Contract-based appointment, optional participation in department service, no expectation of conducting research. Similar courses taught to current appointment.
- Participated in reforming the CSCI 2021 curriculum to adjust topic coverage according to feedback from students and the department undergraduate curriculum. Student perception of the course has improved markedly since these efforts.

- Enrolled and completed the 2018-2019 Early Career Teaching and Learning Program offered by the UMN Center for Educational Innovation. Discussed teaching strategies and improvement to pedagogy with a large group of faculty from various disciplines and a small group that was focused on STEM education.

Term Assistant Professor *Fall 2012 - Summer 2017*
Department of Computer Science, George Mason University, Fairfax, VA.

- Full-time, non-tenure track. Course load of 4 sections per semester, 2-3 preparations. Contract-based, no research responsibilities, service responsibilities related to undergraduate education.
- Taught courses on introductory programming (CS 211, Java), data structures (CS 310), computer ethics (CS 105), parallel programming (CS 499), programming for engineers (CS 222, C language), and CS for non-majors (CS 100). Contributed significantly to course development including new projects, labs, and grading rubrics.
- Class sizes range from 35 to 90; focus on active and engaging teaching strategies during lecture including in-class participation credit, live coding, and group problem sets.
- Developed two courses, CS 100: Principles of Computing (for non-majors) and CS 499: Parallel Computing (special topics for seniors).
- Led a CS teaching study group as part of an NSF funded program to improve engineering education.
- Mentored 6 undergrads on research projects through internal GMU funding sources.
- Active member of the Undergraduate Studies Committee to develop curriculum, primary author of CS honors program, honors college coordinator.
- Served as academic adviser for 65 students including 26 honors college students.

Instructor for CSC 301: Programming and Problem Solving *Fall 2011,*
Department of Mathematics, Concordia University, St. Paul.

Responsible for complete design and instruction of intro Java course for 15 students in math and science majors.

Instructor for CSCI 2011: Discrete Structures of Computer Science, *Summer 2011*
Department of Computer Science, University of Minnesota.

Responsible for instruction on mathematical concepts pertinent to computer science including lecture, assignments, and exams for 30 second-year students.