

Beau Michael Christ, Ph.D.

Associate Professor of Computer Science

Wofford College | Spartanburg, South Carolina

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Academic Profile

Computer science professor, developer, and academic program leader with experience in undergraduate teaching, interdisciplinary curriculum development, high-performance computing education, and applied research. My scholarly interests include artificial intelligence, machine learning, data science, computer vision, and computational science. I focus on making technically complex ideas accessible within a liberal-arts environment and building meaningful connections between computing and other disciplines.

Academic Appointments and Leadership

Wofford College

2016-present

Associate Professor of Computer Science, 2023-present

Assistant Professor of Computer Science, 2016-2023

Coordinator, Program in Data Science, 2020-present

Coordinator, Emphasis in Computational Science, 2017-present

Teaching, research, interdisciplinary curriculum development, academic program coordination, and institutional service at a residential liberal-arts college.

Utah Valley University

2015-2016

Assistant Professor of Computer Science

Undergraduate teaching in algorithms, discrete mathematics, software development, and computing ethics.

University of Nebraska-Lincoln

2010-2015

Graduate Teaching Assistant

Graduate research in computer vision and undergraduate instruction across introductory computing, discrete mathematics, and Unix programming.

Additional Professional Experience

Nicely Dressed Code LLC

2021-present

Founder and Chief Executive Officer

Design and development of educational software and applications for Apple platforms.

Education

M.A. in The Beatles, Heritage and Culture, University of Liverpool

2026-2028 (expected)

Status: Beginning September 2026; expected completion September 2028.

Ph.D. in Computer Science, University of Nebraska-Lincoln

2015

Dissertation: *A Visual Analysis of Articulated Motion Complexity Based on Optical Flow and Spatial-Temporal Features*

Advisor: Dr. Ashok Samal

B.S. in Computer Science (with Honors) and Mathematics, Doane College

2009

Advisor: J. L. Vertin

Research and Scholarly Interests

- Artificial intelligence and machine learning
- Data science and computational science
- Computer vision and activity recognition
- High-performance computing and computing education
- Technology, music, cultural history, and Beatles scholarship

My interdisciplinary scholarship includes independent research into Beatles historiography, recording innovation, and cultural heritage; field study in Liverpool, Hamburg, and London; and teaching and public programming that connect computing, music, business, and the humanities.

Teaching Experience

Representative undergraduate and interdisciplinary courses taught across three institutions.

Wofford College

Computer Science: COSC 115 - Introduction to Web Authoring; COSC 201 - Modeling and Simulation; COSC 235 - Programming and Problem Solving; COSC 240 - Discrete Mathematical Structures; COSC 310 - Computer Graphics; COSC 320 - Programming Languages; COSC 340 - Theory of Computation; COSC 350 - Data Structures and Algorithms; COSC 360 - Operating Systems; COSC 365 - High Performance Computing; COSC 370 - Data and Visualization; COSC 375 - Data Science; COSC 440 - Artificial Intelligence

Interdisciplinary Interim Courses: *WoCraft: Bringing Wofford to Minecraft*; *The Beatles: A Magical Mystery Tour*

Utah Valley University

CS 2300 - Discrete Mathematical Structures I; CS 2420 - Introduction to Algorithms and Data Structures; CS 305G - Global, Social, and Ethical Issues in Computing; CS 3320 - Numerical Software Development

University of Nebraska-Lincoln

CSCE 101 - Fundamentals of Computing; CSCE 155 - Introduction to Computer Science I; CSCE 235 - Discrete Mathematics; CSCE 251 - Unix Programming

Grants, Fellowships, and Honors

Grants and Fellowships

- **2026** | Wofford College Cultural Affairs Grant for *Deconstructing the Beatles* | **\$3,210**
- **2025** | CDS-Exchange Community Fellow | **\$1,000**
- **2024-2025** | ACCESS HPC Training Grant, CIS240453 - Ookami/Anvil | **\$8,000**
- **2022-2023** | XSEDE HPC Training Grant, CIS200031 Renewal - Anvil | **\$1,000**
- **2021-2022** | XSEDE HPC Training Grant, CIS200031 - Anvil | **\$1,000**
- **2020** | Wofford College Faculty Teaching Innovation Grant | **\$300**
- **2019-2020** | XSEDE Campus Champions Fellow | **\$15,000**
- **2018-2019** | XSEDE HPC Training Grant - Bridges | **\$1,000**

Honors and Awards

- **2014** | UNL College of Engineering Outstanding Teaching Assistant Award
- **2009** | Doane College Information Science and Technology Excellence Award

Presentations and Public Scholarship

- **2026** | *From Rubber Soul to Revolver: A Data-Driven Look at The Beatles' Creative Explosion*. Everything Fab Four Fest: *REVOLVER*, Monmouth University, West Long Branch, New Jersey, November 6-8.
- **2025** | *From Help! to Rubber Soul: A Data-Driven Look at The Beatles' Musical Shift*. Everything Fab Four Fest: *REVOLVER*, Asbury Park, New Jersey.
- **2020** | *Implementing a New Program in Data Science in a Liberal-Arts Setting*. Practice and Experience in Advanced Research Computing (PEARC).
- **2019** | Panelist, Imagine Science Film Festival: Transhumanism, Wofford College.
- **2016** | *From Character Recognition to Augmented Reality: The Current State of Computer Vision*. Utah Valley University IEEE Chapter.
- **2014** | *An Overview of Activity Recognition Techniques*. Agile Sports Technologies / Hudl.

Technical Expertise

Programming Languages: Swift, Python, R, C++, C, Objective-C, JavaScript, HTML, CSS, Java, MATLAB, Ruby, Prolog, Lisp, and ML

Platforms: macOS, iOS, iPadOS, watchOS, tvOS, visionOS, Linux, Unix, and Xinu

Frameworks and Libraries: SwiftUI and TensorFlow

Professional Development

Computing and Higher Education

- XSEDE/ACCESS Campus Champion, **2018-present**
- SIGCSE Conference attendee, **2016-2024**
- Regular DataCamp training, **2019-present**
- SIGCSE workshops on generative AI, undergraduate data science, interactive programming environments, distributed computing, and curriculum design, **2020-2024**
- Developed HPC educational resources for Shodor, **2020-2022**
- XSEDE HPC Workshop: Big Data, **2020**
- IEEE Conference on Computer Vision and Pattern Recognition attendee, **2016**
- Global/Intercultural Faculty Fellowship, Utah Valley University, **2016**
- New Faculty Teaching Scholars Program, Utah Valley University, **2015-2016**

Interdisciplinary Scholarship

- Fab Four Master Class focusing on Beatles history, music, and scholarship, **2024-present**

Academic and Professional Service

Institutional Service

- Academic Integrity Committee, Wofford College, **2025-present**
- AI Working Group, Wofford College, **2023-2024**
- Rank and Tenure Committee, Wofford College, **2022-2023**
- Summer Interim Working Group, Wofford College, **2022**
- IT Advisory Committee, Wofford College, **2017-2021**
- Admission, Graduation, and Academic Standards Council, Utah Valley University, **2015-2016**
- CS Advisor Search Committee, Utah Valley University, **2016**
- CS Engineering Faculty Search Committee, Utah Valley University, **2016**

Professional and Community Service

- Reviewer, ACM SIGCSE Technical Symposium, **2026-2027**
- Server administrator, Wofford Computer Science PicoCluster, **2024-present**
- Administrator, Wofford Computer Science Students and Alumni LinkedIn group, **2021-present**
- Research Symposium judge, USC Upstate, **2019-present**
- Interviewer, Wofford Scholar's Day, **2017-present**
- Reviewer, CCSC Southeast, **2018-2020**
- Reviewer, *Computing in Science and Engineering*, **2018-2020**
- Reviewer, *Machine Vision and Applications*, **2016-2020**
- Programming Contest judge, CCSC, **2017**
- Graduate student representative, UNL Faculty Committee, **2014-2015**
- Speaker, UNL Teaching Panel, **2014**

Professional Memberships

- Association for Computing Machinery (ACM), **2005-present**
- ACM Special Interest Group on Computer Science Education (SIGCSE), **2017-present**
- ACM Special Interest Group on High Performance Computing (SIGHPC), **2019-present**
- ACM SIGHPC Education Chapter, **2019-present**
- [Campus Champions](#), **2018-present**