Curriculum Vitae

Steven Huff
shuff57@gmail.com

ACADEMIC PREPARATION

California State University, Chico

- Master of Science, Mathematics Education — May 2021
  Department of Mathematics and Statistics
  RESEARCH TOPIC: LOWER-DIVISION UNDERGRADUATE MATHEMATICS STUDENTS' PERSPECTIVES ON THE PURPOSE OF TUTORING
  (https://scholarworks.calstate.edu/concern/theses/fq978099t)

- Bachelor of Science, Mathematics (Mathematics Education: Credential Pathway) — May 2015
  Department of Mathematics and Statistics

- California Teaching Credential: Single Subject Mathematics — May 2015
  - Computer Science Supplementary Authorization Credential — Summer 2023
  - Career Technical Education: Information and Communication Technologies Supplementary Authorization Credential — Spring 2026

RESEARCH INTERESTS

Student(s) use of tutoring/support services, problem-based learning, project-based learning, inquiry-based learning, curriculum development, multimodality mathematics learning, graph theory, geometry, use of models to enhance student learning and development

POST SECONDARY TEACHING EXPERIENCE

Butte College — 2023 - Present

- Adjunct: Math 11 Liberal Arts Mathematics
  Course Description: This course is applicable for students whose major doesn't dictate a specific transfer level math course. It is a survey of mathematical concepts in a variety of areas. The topics include probability, statistics, set theory, measurement, geometry, and business finance.
  Transfers to CSU.

- Adjunct: Math 12 Mathematics for Business Decisions (Finite Mathematics)
  Course Description:

Linear functions, systems of linear equations and inequalities, matrices, linear programming, mathematics of finance, sets and Venn diagrams, combinatorial techniques and an introduction to probability. Applications in business, economics and social sciences.
Transfers to CSU/UC.

- Adjunct: Math 18 Intro to Statistics
  Course Description: This course uses data from disciplines including business, social sciences, psychology, life science, health science, and education to create better understanding of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings.
  Transfers to CSU/UC.

- Adjunct: Math 30 Analytic Geometry and Calculus I
  Course Description: Primarily for Science, Technology, Engineering & Math (STEM) Majors, this is the first course in differential and integral calculus of a single variable: functions, limits and continuity, techniques and applications of differentiation and integration, Fundamental Theorem of Calculus.
  Transfers to CSU/UC.

California State University, Chico 2018 - 2022

- Lecturer: MATH 51/005L Foundational Mathematics B
  Course Description: Foundational level California Common Core State Standards mathematics topics in support of general education mathematics. This course is a supplemental requirement for Math Ready with Support students required to enroll in designated general education courses.

- Lecturer: MATH 101 Patterns of Mathematical Thought
  Course Description: An informal approach to mathematics designed to bring an appreciation and workable knowledge of the subject to non-majors.

- Lecturer: MATH 105 Introduction to Statistics
  Course Description: Summary of numerical data, distributions, linear regression, and introduction to statistical inference. Statistical software is used.

- Lecturer: MATH 108 Statistics of Business and Economics
  Course Description: Descriptive statistics, sampling theory, statistical inference and tests of hypotheses, analysis of variance, chi-square tests, simple regression and correlation, and multiple regression and correlation.

- Lecturer: MATH 118 Trigonometry
  Course Description: Trigonometric functions, graphs, identities and conditional equations, logarithms, solutions of triangles, and complex numbers.

- Lecturer: MATH 119 Precalculus Mathematics
  Course Description: Functions and graphs, including polynomial, rational, exponential, logarithmic, and trigonometric functions. Systems of equations and inequalities, polar and parametric equations, complex numbers, and analytic trigonometry.

- Lecturer: MATH 290 Early Start
  Course Description: This course provides number sense, graphical reasoning, algebraic thinking, and university processes and campus information

SECONDARY TEACHING EXPERIENCE

Chico Unified School District, Chico, CA

- Pleasant Valley High School 2022 - Present
  High School Mathematics Teacher: Integrated I, Integrated III
  High School Computer Science Teacher: Introduction to Computer Science, Advanced Placement Computer Science Principles,

  Dual Enrollment Instructor for Butte Community College:
  Introduction to Statistics (Math 18),
  Introduction to Programming Concepts and Methodologies (CSCI 4) 2024 - Present

Anderson Valley Unified School District, Boonville, CA

- Anderson Valley Jr./Sr. High School 2017 - 2018
  High School Mathematics Teacher: Integrated I/Algebra 1 for ELL students, Integrated III/Precalculus, Calculus AB
  Middle School Technology Teacher: Technology, Coding and Modeling

- Mendocino College Concurrent Enrollment Program 2017 - 2018
  High School CCS 100 Teacher: An introduction to the career planning process. Designed to help students find the best career options, based on their strengths, interests, and values. Also includes developing job interviews and resume writing skills.

San Leandro Unified School District, San Leandro, CA

- San Leandro High School 2016 - 2017
  High School Mathematics Teacher: Algebra 1

PRIMARY TEACHING EXPERIENCE

Redwood City Elementary School District, San Carlos, CA

- Clifford Elementary School 2015 - 2016
  Middle School Mathematics Teacher: 7th Grade Math/Beginning Algebra, 8th Grade Math/Core Algebraic Ideas

RELATED WORK EXPERIENCE

- Created D.A.D - Dynamic Assessment Developer (in progress) 2026 - Present
  DAD is a MyOpenMath (MOM) question writing tool currently in development. The goal is to use a simple chat bot "trained" on MyOpenMath documentation to help write robust, dynamic questions and to standardize formatting across questions. The tool will be aimed at the non-technical MyOpenMath user who wants to write questions but doesn't know how to write code.

- Created O.G.R.E - Ollama Grading and Rubric Evaluator Spring 2026
  OGRE is a chrome browser extension (OGRE Desktop App in progress) to help support educators in more objective and faster feedback to students. Designed to be highly optimized for consistency across multiple sessions OGRE helps educators create, design, and edit rubrics while also helps educators sift through student response for the actual conceptual responses.

- Created rāSHio (ray-she-oh) 2025 - 2026
  rāSHio (ray-she-oh) is a custom statistical calculator designed specifically for the introductory statistics student to help minimize the confusion when using statCrunch or a ti-84 calculator while also increasing accessibility to the core tools needed to be successful.

- Embedded Systems and Robotics Course and Curriculum Developer 2025 - 2026
  Created and adopted introductory concepts of mechatronics engineering curricula (Arduino Programming and core electrical concepts, introduction to 3D design (FreeCAD) and 3D printing, introduction to different types machining and milling) for Chico Unified School District using a custom book merge and remastering tool (bookSHelf) I developed. (Math 12 example)

- Computer Science Pathway Developer (Update) Spring 2026

Introduction to Computer Science is a hybrid block-based programming/JavaScript semester elective course. AP Computer Science is dual enrolled and is now called Advanced Computer Science (Advanced CS). Advanced CS is now the concentrator course for the Career Technical Education: Information and Communication Technologies Pathway with the new Embedded Systems and Robotics as the Capstone course.

- Awarded Golden State Pathways Grant for approximately $300,000 Spring 2024
  Create/Develop a robotics pathway at Pleasant Valley High School

- "Project MATH" Community Placement Teacher Fall 2022
  Host Project MATH students from Chico State in my high school classroom.

- Computer Science Pathway Developer Fall 2022
  Created computer science pathway (Introduction to Computer Science in JavaScript, AP Computer Science Principles in Python/JavaScript) for Pleasant Valley High School.

- Computer Science Curriculum Developer Fall 2022
  Created and adopted computer science curricula (Introduction to Computer Science in JavaScript, AP Computer Science Principles in Python/JavaScript) for Chico Unified School District.

- Chico STEM Connections Collaborative (CSC^2)- Lead Mentor NSC Coordinator 2021 - 2022
  Assist with College of Natural Sciences (NSC) payroll, manage the NSC study center, assist with NSC program management.

- CSC^2 STEMCAT Mentor Coordinator 2021 - 2022
  Coordinate student mentors with student mentees, plan activities and learning opportunities around first year institutional knowledge.

- REACH Faculty Mentor 2021 - 2022
  A role guiding first-year students toward understanding university life, skills and resources

- "Project MATH" Mentor Teacher 2020 - 2021
  Work with Mathematics Education majors in fostering and developing an understanding of core pedagogical ideas

- Trained QRAT and TQR curriculum instructor June 2020
  QRAT and TQR is a CSU Sacramento developed highschool mathematics curriculum

- Supplemental Instruction (SI) "Student Leader" Mentor Fall 2019, Fall 2020
  Work with SI student leader to determine which concepts will be further supported

- Early Assessment Program Mathematics and Research Assistant 2018 - Present
  Responsibilities include but are not limited to CAASPP Data collection, organization and updating high school data. Visit service area high schools to present to 11th grade students.

- Early Start Program Curriculum Developer Summer 2019, Summer 2021, Summer 2022
  Developed and implemented curriculum centered around number sense, graphical reasoning, algebraic thinking, and university processes and campus information

- Pilot Teacher and curriculum developer for AVHS STEAM7 Program 2017 - 2018
  (Science, Technology, Engineering, Art, and Math)
  A three teacher co-collaboration for helping students develop skills necessary for the culminating project meant to capture three or more facets of STEAM

CONFERENCES AND PROFESSIONAL DEVELOPMENT

- Norfield trained on industry level Hass Mills Summer 2025
  Completed 90+ hours of intensive technical training at Norfield (Chico, CA) in the setup and operation of Haas CNC vertical mills to fabricate precision components for industrial door machinery. Responsibilities included interpreting CAD/CAM files and engineering drawings to maintain tight tolerances through meticulous tool calibration, parts inspection, and routine preventive maintenance. This role also required supporting multi-stage assembly operations to ensure strict adherence to quality control standards within a high-output production environment.

- SLC Math Tutor Training Facilitator Fall 2021
  Facilitate a content specific math tutor training for the Student Learning Center, which I designed based on ideas developed while writing my master's thesis.

- CSU Chico "GoFlex Session #1" Summer 2021
  Faculty participants will learn about how to manage the classroom equipment, the features and configurations to engage in-person and online students at the same time. Faculty mentors will lead and facilitate a cohort of up to 15 faculty. GoFlex will support faculty in leveraging tools (e.g. Poll Everywhere for polling students both online and in-person at the same time), sharing templates for student activities and best practices for classroom rules of engagement in this new environment.

- FLC Faculty Writing Community Spring 2021
  A semester long commitment to a shared space for faculty to share their research ideas and publication goals, while supporting and motivating each other

- Quality Learning and Teaching Workshops (QLT) Spring 2021
  5 workshop training meant developed to assist faculty and instructional designers to more effectively create and deliver online, blended, and flipped courses

- Digital Pedagogy FLC Spring 2021
  A semester-long training meant to support teaching across the disciplines and consider how our students, nascent learners in our fields, become full participants in our courses, in our disciplines, and importantly, in pursuit of their learning goals.

- Theory and Practice of Teaching First-Year Students FLC Fall 2020 - Spring 2021
  8 training days inviting participants to think about teaching and learning with a focus on first-year students. Our goal: to support teaching across the disciplines, while thinking about how to best support first-year students as novice learners

- Mount Lassen Mathematics Conference, Redding CA March 2020
  Guest speaker instructing north state teachers on CCSS mathematical practices

- CSU Chico "Go Virtual Summer Institute #2" Summer 2020
  A five-day training for faculty to learn how, and to have the time, to convert existing classes into effective online or blended courses.

- CSU Sacramento's 2020 Quantitative Reasoning Summer Course June 2020
  A multi-day training designed to develop and hone your abilities in becoming a facilitative teacher, understand the curriculum's approach to building on students' patterning abilities to see algebraic structures which is pivotal for each course, understand the daily structure and curriculum components, and discuss adaptations for teaching the QR courses in distance learning conditions.

- EO 1100 Co-Requisite PD Instructor, California State University, Chico November 2019
  Guest speaker instructing other Co-requisite faculty on CCSS mathematical practices

- Chico Math Project Summer Workshop, California State University, Chico June 2019
  Five-day training for student centered geometry problem-based teaching strategies

- 2018 CPM Teacher Conference February 2018
  A multi-day conference where other educators showcase how they are implementing CPM's curriculum

- SparkFun Education: Maker Education PD January 2018
  A one day workshop to become familiarized with "Maker" educational tools

- Sonoma State: Learn by Making 2017 -2018
  An interactive workshop where participants will be introduced to the innovative, integrated STEM curriculum

- AP Calculus AB and BC Workshop, Palo Alto High School, CA July 2017
  Multi-day training for effective teaching strategies for Calculus AB/BC

- AVID Certified Summer 2017
  Multi-day training in how to better support students for college eligibility and success

- WestEd Experimental Research Study 2015 - 2017
  Participated in early phase research to develop new and innovative technology for the math classroom.

TEACHING INTERESTS

Foundational Mathematics, Introductory Statistics, Finite Mathematics, Survey of Calculus, Concepts and Structures of Mathematics Series, College Algebra, Trigonometry, Pre-Calculus, Analytic Geometry and Calculus Series, Discrete Math, Elementary Linear Algebra, Elementary Differential Equations, Conceptual and Practical Statistics, Intuitive Foundations of Geometry, College Geometry, Advanced Number and Operation, Real and Complex Number Systems, Graph Theory, Industrial Technology, Woodworking, CNC Machining

SKILLS

- **Personal Project, Languages, Software, &Systems** 2015 - Present

  Personal Projects
  rāSHio
  bookSHelf (no app yet)
  D.A.D - Dynamic Assessment Developer (in progress)
  O.G.R.E - Ollama Grading and Rubric Evaluator (browser extension, desktop app in development)
  wiSHlist
  shDev (proof of concept)
  11Gauge (proof of concept)
  animated-fill-buttons
  Shufflr (proof of concept)

  Languages
  JavaScript
  R

C++
HTML
LaTeX
Scratch
Python

Softwares

RStudio
RPubs
Shiny Apps
MiKTeX Console
Overleaf
Google Suite Apps
Microsoft Office 365 Apps
StatCrunch
VCarve
Ultimaker Cura
Fusion 360
Google Sketchup
Geogebra
Geometer's Sketchpad
Various video editing platforms
Zoom
Pronto
Discord
Flipgrid

Systems
Blackboard
Canvas
Aeries
MyStatLab
Cengage WebAssign
HTML Embedding
CS360
PeopleSoft

- **Hardware** 2019 - Present

3D Printers
Metal/Wood/Laser CNC Machines
Raspberry Pis (Single Board Computers)
ESP8266/ESP32 and other various microcontrollers
Trained to operate Haas Mills