

QUALIFICATION HIGHLIGHTS

- Over 35 years developing curriculum and teaching undergraduate mathematics
- 22 years creating online content and teaching online STEM courses
- Taught over 330 fully-online mathematics classes with students on every continent
- Engaging teaching style in inclusive online classroom providing student-centered active learning experiences and interactive discussions and problem solving
- Home-educated my daughter through to University via unique personalized ed-ventures
- Served on variety of non-profit boards related to environmental protection, consumer health advocacy, mathematics, and education
- Self-disciplined, organized, articulate, professional, critical thinker, hard worker

EDUCATION

1996-2020 Certifications: Certified Internet Leader, Certified Quality Matters Peer Reviewer, Certified eLearning Professional, Universal Design for Learning (UDL) Certification

1987 M.S. Mathematics, *Portland State University*, Portland, Oregon
Thesis: "Meanderings on the Jordan Curve: A Combinatorial Analysis."

1985 B.S. Mathematics, Mathematics, *Portland State University*, Portland, Oregon

Undergraduate concentrations in mechanical engineering, computer programming, computer science, systems analysis, developmental psychology, and secondary teaching.

ACADEMIC EMPLOYMENT (current listed, prior positions upon request)

2002-pres. Associate Faculty Member and Subject Matter Expert
University of Phoenix Online, Phoenix, Arizona
Online College of Natural Sciences

1996-pres. Tenured Professor of Mathematics,
Clark College, Vancouver, Washington
Primarily teach precalculus algebra, trigonometry, and the calculus sequence for STEM.
Taught online (asynchronous) starting in 1999. Full teaching load online 2006-present.

PROFESSIONAL AND PERSONAL HIGHLIGHTS

Milestone: Taught 330 online mathematics classes.

Have taught over 330 online mathematics classes with students on every continent including Antarctica. Over these past two decades my fully-online asynchronous classes have become increasingly collaborative and learner-centered driven by interactive discussions, active learning, shared open resources (OER), and personal learning networks (PLN). New innovations coming!

Community climate science activist working for ecological justice and a sustainable future.

Actively engaged in local environmental protection issues specifically as Webmaster, Researcher, and a Team Lead for the [NoMethanol360](#) campaign (2016-present) in Kalama WA where community climate science activists are working to stop the world's largest fracked fossil-gas-to-methanol refinery and export terminal from being built along the Columbia River.

Developed and taught the premiere online Calculus I-II-III courses in the northwest.

Developed the curriculum for and taught the first-ever fully-online sequence of calculus (for STEM) courses in the northwest (2009). Currently use Mathematica-based e-text boasting 900 interactive figures supplemented by hand-selected readings and resources.

Served a variety of non-profit organizations.

Executive Officer of the [Washington State Mathematics Association of Two-Year Colleges \(WAMATYC\)](#) for 14 years serving as Newsletter Editor 1997-2003 and Webmaster 1997-2003, 2010-2018. Consumer health advocate and volunteer for [DES Action U.S.A.](#), a non-profit organization dedicated to persons exposed to diethylstilbestrol (a drug given to millions of pregnant women mostly in the 1950s and 1960s later found to cause cancer and other health problems) for 22-years including serving on the National Board of Directors 1998-2000.

Home-education ed-ventures.

My husband and I home-educated our daughter through to University using a unique pedagogy and personalized curriculum I (mostly) self-developed. As a lifelong learner myself, a personal highlight was my family being able to learn the history, geography, and geology of North America by camping our way cross-continent on two seven-week long trips (2012, 2015) through 30 states and three Canadian provinces. These hands-on learning experiences deepened my respect for our environment, National Parks, wildlife areas, and the power of conservation. Home-educating in many ways changed how I see and approach education.

Authored online mathematics lessons which were later self-published as e-books.

Wrote materials for online algebra and precalculus courses (1999-2006) including complete online lessons, screencasted examples, podcasted lectures, blog, wiki, open-ended discussion questions, and pools of test questions. Many of the written materials were self-published in 2006 as my [Golden Mathematics](#) series of algebra e-books.

Co-created, developed, and grew Clark College mathematics elearning program.

Co-created the Clark mathematics elearning program and started teaching online (asynchronous) in 1999. Coordinated the mathematics online/hybrid courses including mentoring faculty, planning the class schedule, and choosing e-textbooks and software. My full teaching load has been online since 2006. By 2010 the Clark mathematics department had grown offerings to about twenty elearning math classes each term taught by fifteen faculty. By 2019 my department had taught over 1000 fully-online classes. My motivation for developing the online program was to provide inclusive opportunities for students who may struggle with traditional academic formats due to family or work obligations, disabilities, mental health or other life challenges.

MEDIA EVENTS, PRESENTATIONS, PUBLICATIONS, ONLINE RESOURCES, PROFESSIONAL DEV.

My recent media events: [Media \(featured interviews, articles, etc.\)](#)

My presentations and publications: [P & P \(maths, education, climate science, consumer health\)](#)

My current online resources and websites include (all designed and hand-coded by me):

- [AZiMath: A-to-Z Internet Applications of Mathematics](#)
- [Cascadians for a Sustainable Future: NoMethanol360](#)
- [Mathematics Online Web](#)
- [Mathematics Online Lesson Notes](#)
- [My Home Page: SallyKeely.com](#)

My recent professional development: [Professional Development 2020](#) (Note activities focusing on improving inclusion and diversity in our classes and curriculum, a key personal goal for 2020.)

TECHNOLOGICAL EXPERTISE

- Active on the internet since 1993. First academic website created in 1996.
- Expert in HTML coding and Adobe Dreamweaver (webpage design software).
- Proficient in ASCII MATH, CSS, LaTeX, and MathML coding.
- Certified and proficient in a variety of course management and delivery systems including ALEKS, BlackBoard Ultra, Canvas, MyMathLab, WAMAP, and WebAssign.
- Familiar with Mathematica and R-Studio programming.

COMMUNITY SERVICE

Webmaster, Researcher, and a Team Lead, *NoMethanol360* campaign, 2016-present
Webmaster for local candidates (Mayor, Port Commissioner, City Council Member), 2016-2019
Webmaster and “at large” Council Member, *Green Party of Southwest Washington*, 2015-2018
Leader, *Earth Scouts of the Pacific Northwest Troop #350*, 2011-2015
Co-Leader, *Girl Scouts of Western Washington Troop #40429*, 2008-2011
Parent Volunteer, *4-H of Southwest Washington*, 2007-2012
Director, *Home-Educators of Kalama*, 2005-2012
Northwest Coordinator, *DES Update Project, Centers of Disease Control*, 2004
Northwest Communication and Technology Coordinator, *DES Action U.S.A.*, 2000-2018.
Officer on the Board of Directors, *DES Action U.S.A.*, 1999-2000
Member of the Board of Directors, *DES Action U.S.A.*, 1998-2000
Executive Officer, *WA Mathematical Association of Two-Year Colleges*, 1997-2003, 2010-2018
Technology and Web Design Consultant, Listserv Administrator, *DES Action U.S.A.*, 1997-2015
Technology Consultant, Listserv Administrator, *American Surrogacy Center*, 1994-1999
Member of the Board of Directors, *PCOSupport (PCOS=polycystic ovarian syndrome)*, 1994-1998
Member of the Board of Directors, *Save Our Forests Northwest*, 1988-1993
Member, *Consumer Participation and Action Committee for Lewis County*, 1987-1990
Event Co-coordinator, *Portland for a Nuclear Free World*, 1985-1987