Benjamin V. Holt

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TEACHING EXPERIENCE

Assistant Professor — Fall 2018-Present
Southwestern Oregon Community College, Department of Mathematics
- Teach courses in algebra, statistics, single/multivariable/vector calculus, liberal arts and culinary mathematics.
- All face-to-face courses have both lecture and collaborative learning components with daily student presentation of ideas.
- Created course website (`holt.blue`) which generates course materials for both in and out of class.

Adjunct Faculty — Fall 2016-Summer 2018
Columbia College, Department of Mathematics
- Taught courses in beginning algebra, intermediate algebra, and statistics.
- All courses had both lecture and collaborative learning components with daily student presentation of ideas.
- Created course website (`holt.blue`) which generated course materials for both in and out of class.

ESL Instructor — October 2012-May 2016
CREF Center for Foreign Language Study, Nizhny Novgorod, Russia
- Taught English as a second language on an individual and group basis to students ranging from toddlers to adults.

Lecturer — Spring 2009-Fall 2009 and Fall 2010-Spring 2012
Humboldt State University, Department of Mathematics
- Taught various mathematics courses from Beginning Algebra to Calculus. Also taught Mathematics as a Liberal Art.

Associate Faculty — Fall 2008 and Spring 2010-Fall 2010
College of the Redwoods, Department of Mathematics
- Taught several sections of developmental mathematics including Pre-Algebra and Beginning Algebra.

Graduate Teaching Assistant — Fall 2003
University of Oregon, Department of Mathematics
- Taught a section of College Algebra while taking graduate level mathematics courses.

TUTORING EXPERIENCE

Mathematics Tutor — Fall 2019-Present
Southwestern Oregon Community College Laker Learning Commons
- Provide individual assistance to students in Pre-Algebra, Algebra, Pre-Calculus, Trigonometry, Calculus, and Statistics.

Math Lab Tutor — Fall 2008 and Spring 2010-Fall 2010
College of the Redwoods Mathematics Lab
- Provided individual assistance to students in Algebra, Pre-algebra, and Calculus.

Math Lab Tutor — Fall 2005-Spring 2008
Humboldt State University Mathematics Lab

- Provided individual assistance to students in Humboldt State University's mathematics lab in a variety of mathematical subjects including Algebra and Calculus.

Tutor   Fall 1996-Spring 1999
Tutorial Center, Columbia College
- Assisted individuals in learning developmental mathematics. Offered coping strategies commensurate with various styles of learning for learning-disabled individuals. Earned Level I and Level II CRLA Tutoring Certificates.

OTHER EXPERIENCE   *Research Associate*   July 2014-July 2018
Mathematics Department, Humboldt State University
- Volunteer research position.

PROFESSIONAL DEVELOPMENT IN EDUCATION   *Quality Matters Certificate*   December 2023
Earned the QM certificate *Teaching Online-An Introduction to Online Delivery (TOL)*. Took the course as a refresher and compliment to the course in *Online Course Development* and to stay current with online learning resources and practices.

ORMATYC Conferences   April 2019, 2022, 2023
Attended the <u>OR</u>egon <u>M</u>athematical <u>A</u>ssociation of <u>T</u>wo <u>Y</u>ear <u>C</u>olleges (ORMATYC) Conference.

Pacific Northwest Great Teaching Seminar   June 16th-20th, 2019
Attended the Pacific Northwest Great Teaching Seminar: a multidisciplinary and highly interactive experience where educators share their innovations, and ideas for solutions to difficult problems encountered in the community college classroom.

CMC^3 Recreational Mathematics Conference   April 27th and 28th, 2018
Attended the California Mathematics Council of Community Colleges Recreational Mathematics Conference held at Lake Tahoe Community College.

Online Course Development   Spring 2018
Completed EDUC 50, *Online Course Development*, at Columbia College to enhance facility with online learning resources and to prepare for teaching and developing online courses when needed by the department.

Active Learning Conference   January 12th, 2018
Attended a multidisciplinary Active Learning Conference hosted by Merced College.

Accreditation Basics Certificate   September 6th, 2017
Completed the ACCJC Accreditation Basics Course to learn more about and to be on board with Columbia College's approaching accreditation renewal.

PROFESSIONAL DEVELOPMENT IN WEB-BASED TECHNOLOGY   *Course Website*
Created the website `https://holt.blue` for all courses I have taught at Southwestern and Columbia College. The site includes lecture notes, online homework assignments, exam generation, and an online statistical software package. All features are written in HTML and JavaScript. These resources allow for a greater level of flexibility for students and provide unlimited opportunities for practice in meeting course objectives.

Analyze My Writing
Sole creator, developer, and owner of the website `https://analyzemywriting.com` which allows users to examine quantifiable aspects of their writing including readability

(text complexity) and lexical density. The site has been featured on several educational technology blogs including the well-known `freetech4teachers.com` and other tech websites including `producthunt.com` (stayed in the top five for December 26th, 2015).

Stats.Blue
Sole creator, developer, and owner of the website `https://stats.blue` which provides a free and easy-to-use software suite of common statistical procedures. The site presently receives 24,000 clicks per month from Google search.

PROFESSIONAL DEVELOPMENT IN RESEARCH

Peer-Reviewed Publications:

On Permutiples Having a Fixed Set of Digits, *INTEGERS Electronic Journal of Combinatorial Number Theory.* **17**, #A20, 2017.

Derived Palintiple Families and Their Palinomials, *INTEGERS Electronic Journal of Combinatorial Number Theory* **16**, #A27, 2016.

Some General Results and Open Questions on Palintiple Numbers, *INTEGERS Electronic Journal of Combinatorial Number Theory* **14**, #A42, 2014.

Deriving Divisibility Theorems with Burnside's Theorem (with Tyler J. Evans), *INTEGERS Electronic Journal of Combinatorial Number Theory* **5**(1), #A26, 2005.

Submitted for Review:

A Method for Finding All Permutiples with a Fixed Set of Digits from a Single Known Example, *Submitted for review to INTEGERS Electronic Journal of Combinatorial Number Theory*, available at arXiv.org: arXiv:2312.02056.

Colloquia and Presentations:

Cryptography: A Less-Than-Complete Intro in Five Acts   November 8, 2019
Southwestern STEM Colloquium Series, Coos Bay, OR.

SERVICE TO INSTITUTION AND COMMUNITY

College 101   Winter 2019, Spring 2023, Spring 2024
Participated in College 101 organized by the TRIO Upward Bound program at Southwestern. The event gives high school juniors who are prospective college students a taste of the college experience. Instructors offer talks about a topic which makes their chosen discipline exciting and interesting; students then sign up for "courses" based upon personal interest. Gave two 40-minute talks about cryptography as an application of modular arithmetic.

STEAM Academy   Summer 2023
Participated in the 2023 Southwestern STEAM Academy. Presented topics in cryptography to students. Organized a scavenger hunt based on clues that students decrypt. These clues introduced students to key campus resources, such as the campus library and TRIO services. Organized with each of these parties as participants in the scavenger hunt.

Career Exploration Day   Fall 2023
Participated in the 2023 SWOCC Career Exploration Day. Created printed materials and information about careers in mathematics and distributed these materials to interested parties.

Faculty Senate 2021-2023
Served as a senator on Faculty Senate from 2021 to 2023.

SWOCC Foundation Scholarship Application Reader Winter 2024, 2023
Read and assessed student scholarship applications according to criteria set forth by the SWOCC Foundation.

Volunteer Greeter Holiday Lights at Shore Acres December 2018, 2022
Volunteered as a greeter representing SWOCC at the 2018 Holiday Lights at Shore Acres..

Student Success Committee 2022-Present
Serving on the Student Success Committee since Fall 2022.

Data Team Ongoing
Presently working with our campus data team to gain data-driven insights into how and where our institution can better serve its students, community, and all stakeholders.

Peer-Observation Committees Ongoing
Have served on a a number peer observation committees for fellow faculty members at Southwestern.

Senior Forum 2020 December 2020
Participated in the SWOCC Senior Forum which encourages high-school seniors to choose SWOCC for their lower division coursework

Volunteer for United Way Day of Caring August 2020
Participated in SWOCC work group for the United Way Day of Caring. Helped with routine yardwork for local residents in need of assistance.

Instructional Design/Technology Committee 2018-2021
Served on the Instructional Design/Technology Committee from 2018 to 2021. Served as chair during the 2020-2021 academic year.

Speaker for the Southwestern STEM Colloquium Series Fall 2019
Gave two colloquium talks: one on smoldering propagation in organic forest soils, and another on cryptography.

In-District Mathematics Advising May 2019
Participated in the recruitment outreach efforts to the in-District high schools by offering pre-advising and registration assistance for mathematics courses.

Course Development February 2019
Assisted in redesigning and outlining our second-term statistics course (MTH 244). Presented the case for adopting the new outline to the Curriculum Committee in February 2019.

TRIO 1st-Generation Faculty Panel September 2018
Participated on the First-Generation College Graduate Panel and Lunch for incoming first-year TRIO students at Southwestern Oregon Community College.

SERVICE TO COLUMBIA COLLEGE

Distance Education Committee
Served on the Distance Education Committee as an adjunct faculty member at Columbia College in Sonora, California.

EDUCATION   **Master of Science,** Environmental Systems: Mathematical Modeling
Humboldt State University, Arcata, California, May 2008
Thesis: *A Stochastic Spatial Model for the Consumption of Organic Forest Soils in a Smoldering Ground Fire*
Advisor: Elizabeth Burroughs

Bachelor of Arts, Mathematics
Humboldt State University, Arcata, California, December 2002 (Summa Cum Laude)

Associate of Arts, Mathematics and Language Arts
Columbia College, Sonora, California, May 1999 (With Distinction)

HONORS   *Recipient of the Patricia O. McConkey Outstanding Thesis Award*
Humboldt State University, 2008.

GRADUATE   *Selected Topics: Applied Optimization*, Humboldt State University, Fall 2007.
COURSEWORK   *Stochastic Processes*, Humboldt State University, Spring 2007.
Selected Topics: Mathematical Ecology, Humboldt State University, Fall 2006.
Mathematical Modeling Practicum, Humboldt State University, Fall 2006.
Data Collection and Analysis, Humboldt State University, Spring 2006.
Dynamical Systems, Humboldt State University, Fall 2005.
Independent Study: Probability Theory, Humboldt State University, Fall 2005.
Real Analysis, University of Oregon, Fall 2003.
Topology, University of Oregon, Fall 2003.
Abstract Algebra, University of Oregon, Fall 2003.

PERSONAL   *Русский Язык и Культура России (Russian Language and Culture)*. Proficient in
INTERESTS   conversational Russian. Interested in the distinctive character of Russian works of art, literature, science, and mathematics. Fascinated by Russian history, philosophy, and national character. Lived in Russia from 2012 to 2016.

REFERENCES   *Lahna VonEpps*. Mathematics Instructor (Mathematics Department Chair), Columbia College, 11600 Columbia College Drive, Sonora CA 95370. Phone: (209) 588-5147, Email: voneppsl@yosemite.edu.

Jim Retemeyer. Mathematics Instructor, Columbia College, 11600 Columbia College Drive, Sonora CA 95370. Phone: (209) 588-5164, Email: retemeyerj@yosemite.edu.

Maryl Landess. Mathematics Professor, Columbia College, 11600 Columbia College Drive, Sonora CA 95370. Phone: (209) 588-5175, Email: landessm@yosemite.edu.

Dr. Dale Oliver. Professor, Department of Mathematics, Humboldt State University, 1 Harpst Street, Arcata, CA 95521-8299. Phone: (707) 826-4921, Email: dro1@humboldt.edu.

Dr. Elizabeth Burroughs. Professor, Mathematics Education, Department of Mathematical Sciences, Montana State University, 2-210 Wilson Hall, Bozeman, MT 59717-2400. Phone: (406) 994-3322, Email: burroughs@math.montana.edu.