

Marcus E. Jorgensen

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Curriculum Vitae

- Education
- Ph.D. in Education, 2014
Utah State University, Logan, UT
Dissertation: *Barriers to Curricular Change in General Education Mathematics at a Large Public University*
 - M.S. in Instructional & Performance Technology, 2000
Boise State University, Boise, ID
 - M.A. in Liberal Studies (Science/Chemistry emphasis), 1978
Wesleyan University, Middletown, CT
 - B. S. (Ocean Engineering option), 1974
U.S. Coast Guard Academy, New London, CT
- Teaching Experience
- Quantitative Reasoning, Utah Valley University, 2016-present
 - Developmental Mathematics, Utah Valley University, 2007-present
 - Foundation General Mathematics, National Univ. of Samoa, spring 2016
 - General Chemistry, U.S. Coast Guard Academy, 1978-1982
 - Calculus preparation, U.S. Coast Guard Academy, summer 1978
- Employment History
- 2013 to present Associate Professor, Developmental Mathematics, Utah Valley University, Orem, UT
Received tenure. Teaches department courses and serves on various departmental and institutional-level committees.
 - 2016 (spring) Instructor, Mathematics Department, National University of Samoa, Apia, Samoa
Supported eight sections (similar to a supplemental instruction role) of Foundation General Mathematics 1, the first of two mathematics courses required of students who desire to be admitted into the education program to teach elementary or secondary school, with a non-mathematics major.
 - 2009 to 2013 Assistant Professor, Developmental Mathematics, Utah Valley University, Orem, UT
Teaches department courses and serves on various departmental and institutional-level committees.
 - 2007 to 2009 Instructor, Developmental Mathematics, Utah Valley University, Orem, UT
Teaches department courses and serves on various departmental and institutional-level committees.

- 2008 to 2016 Director of Institutional Effectiveness & Planning, Utah Valley University, Orem, UT
Responsible for facilitating the systematic evaluation of how well the institution accomplishes its mission, goals and intended student outcomes. Internal consultant for strategic planning and assessment. 50% release time basis.
- 2006 to 2007 Director of Institutional Effectiveness, Utah Valley State College, Orem, UT
Responsible for facilitating the systematic evaluation of how well the institution accomplishes the mission, goals and intended student outcomes. Internal consultant for strategic planning and assessment.
- 2005 to 2006 Dean of Instruction for Computing, Mathematics, and Science, Spokane Falls Community College, Spokane, WA
Responsible for managing four departments: Computer Science/Information Systems, Math, Physical Sciences, and Life Sciences; 27 full-time faculty, 30 part-time faculty, three classified employees; and a \$3 million dollar budget. Duties include strategic planning, educational assessment and program evaluation, faculty evaluation and hiring, student issues, facilities issues, curricula changes, scheduling, etc. Served on the campus Curriculum Committee, the Strategic Planning and Institutional Effectiveness Committee, the Fiscal Committee, The Title III committee, Math Transition Committee, and the Institutional Teaching and Learning Improvement Coordinating (ITALIC) Committee.
- 2001 to 2005 Dean of Instruction for Business, Computing, Mathematics, & Science, Spokane Falls Community College, Spokane, WA
Responsible for managing seven departments: Computer Science/Information Systems, Math, Physical Sciences, and Life Sciences, Accounting/Economics, Management, Administrative Office Systems; 40 full-time faculty, over 30 part-time faculty, six classified employees, and a \$4 million budget. [Note: Campus reorganized and added a dean for the business programs in 2005.]
- 1974 to 2001 Served in the following positions with the U. S. Coast Guard:**
- 1998 to 2001 Commanding Officer, Training Center, Petaluma, CA
Responsible for entire Training Center operation including training, administration, budget, facilities maintenance, medical clinic support, and police/fire safety. More than 4,000 students trained per year in various subjects including culinary arts, electronics, law enforcement, dental assisting, computer systems, etc. Staff of 360; \$8M budget.
- 1996 to 1998 Commanding Officer, Distance Learning Center, Oklahoma City, OK
Responsible for operation of the Coast Guard's distance learning center (accredited by Distance Education and Training Council). Provided over 100 courses to 30,000 students – courses were approved by ACE for college credit. Managed the Coast Guard's "off-duty" education program for obtaining college degrees. Maintained library of audio-visual college-level courses. Staff of 30; \$800K operating budget.
- 1995 to 1996 Regional Director, Coast Guard Auxiliary (civilian volunteers) & Regional Civil Rights Specialist for District Office, Honolulu, HI
Responsible for Auxiliary program in Hawaii, Guam, and Saipan. Also responsible for the Civil Rights program (training, conflict resolution) in region.

- 1991 to 1995 **Manager, International Policy/Operations, Coast Guard Headquarters, Washington, DC**
Supervised international affairs staff of four. Served as primary point of contact within Headquarters for international policy issues and chaired the International Advisory Group. Developed/implemented international strategic plan. Oversaw the Micronesian Training Program. Coordinated visits of international dignitaries. Conducted training needs assessments in Haiti, India, and Thailand.
- 1990 to 1991 **Chief, Reserve Training & Performance Analysis, Coast Guard Headquarters, Washington, DC**
Responsible for oversight of all training for the 12,000 member Coast Guard Reserve force. Approved all curricula. Planned for the development of a special emergency, temporary training center for Reserve units deployed during the Gulf War. Also, served as director of that training facility.
- 1987 to 1990 **Commanding Officer, Regional Training Teams, Pacific Area, Alameda, CA**
Managed 25 instructors on six traveling teams providing skills and team training to 100 operating units in the Pacific region including the West Coast, Hawaii, Alaska, and Guam. \$500,000 operating budget.
- 1983 to 1987 **Assistant Chief of Training & Educational Specialist, Training Center, Petaluma, CA**
Supervised six technical training schools and 100 instructors. Implemented instructional systems design methodology based on a student-centered, hands-on approach. Overcame obstacles and helped instructors realize the benefits of the new approach. Worked with subject-matter experts to revise curricula. Facilitated job-analysis panels to ensure that jobs were accurately described and that the curricula matched the job requirements. Established evaluation system.
- 1982 to 1983 **Graduate Student, Human Resource Education, Boston University, Boston, MA**
Received instruction to prepare for duties as an educational specialist.
- 1978 to 1982 **Instructor (Chemistry), U.S. Coast Guard Academy New London, CT**
Taught freshman Chemistry. One year as Assistant Dean of Academics (50% release time) and two years as Director of the Educational Media Center. As such, my duties included orientation training for new faculty. I also served on a faculty committee as part of the self-study for regional accreditation.
- 1974 to 1978 **Various junior executive positions**
Held several junior executive positions including communications officer on a ship, commanding officer of a patrol boat, and assistant branch chief on a district headquarters staff.

Publications

Refereed Journal
Articles

Chang, K. and **Jorgensen, M. E.** (2015). Reasoning for the division of polynomials. *MathAMATYC Educator*. 6(3).

Jorgensen, M. E. (2010). Questions for practice: Reflecting on developmental mathematics using 19th century voices. *Journal of Developmental Education*. 34(1), 26-35.

Jorgensen, M. E. (2010). Suuroji puzzles: Sudoku-like logic with a twist. *MathAMATYC Educator*. 1(3), 18-23.

Jorgensen, M. E. (1984). Effective and efficient use of classroom time. *Journal of Chemical Education*. 61, 523.

Other publications **Jorgensen, M.E.** (2016). Are mathematics faculty ready for Common Vision? *Notices of the American Mathematical Society*. 63(10), 2. 1186-1188.

Jorgensen, M. E. (2008). Have you been flossing? An analogy for educational program assessment. *Assessment Update*. 20(5), 9-10.

Jorgensen, M. E. (2005). Quantity versus quality: Finding time for innovations in the classroom. *NISOD Innovation Abstracts*. XXVII, 1.

Jorgensen, M. E. (1999). Why go to a trainer for non-training solutions? Eight reasons why trainers make good performance technologists. *Performance Improvement Journal*. 38(1), 20-24. [Article selected for inclusion in the American Society for Training and Development's 2000 *Handbook of Training and Performance*.]

Jorgensen, M. E. (1987). We need 'born-again' trainers. *Performance and Instruction*. Dec/Jan issue. [Article addresses need for student-centered training; selected as a finalist for Article of the Year in the "how-to" category at the 1988 annual convention of the National Society for Performance Improvement.]

Conference
Proceedings

Jorgensen, M. E. (2014). Simulating outside-the-classroom maths with in-class word problems. *Conference Proceedings for the 21st Annual Conference of Adults learning Mathematics*.

Jorgensen, M. E. (2011). Relevance as a bridge between college-preparation adults and the world. *Conference Proceedings for the 18th Annual Conference of Adults learning Mathematics*.

Presentations **Marcus Jorgensen**. "Liars will figure: Illuminating numerical deception." 42nd Annual Conference of the American Mathematical Association of Two-Year Colleges. Denver, CO. November 2016

Marcus Jorgensen. "Reflections from a university sabbatical teaching experience in Samoa." Annual Conference of the Utah Council of Teachers of Mathematics. Salt Lake City, UT. July 2016

Marcus Jorgensen and Linda Makin. "Flossing: Building Healthy, Aligned Planning and Assessment Habits Prior to Accreditation Reviews." 51st Annual Conference of the Society for College and University Planning. Vancouver, BC, Canada, July 2016.

Marcus Jorgensen. “Increasing accessibility of mathematics education through open sources.” 22nd Annual Conference of Adults Learning Mathematics. Alexandria, VA. July 2015.

Marcus Jorgensen, Jeff Johnson, and Laura Snelson. “Assessment is the means not the end: Integrating assessment with planning and budgeting.” Assessment Institute annual conference hosted by Indiana University-Purdue University at Indianapolis, IN. October 2014.

Marcus Jorgensen. “Simulating (or not) the Real-World in Mathematical Word Problems.” Annual conference of the Southwest Association for Developmental Education. Salt Lake Community College, Larry Miller Campus, Sandy, UT. October 2014.

Marcus Jorgensen. "Simulating outside-the-classroom mathematics with in-class word problems." 21st Annual Conference of Adults Learning Mathematics. Bern, Switzerland. July 2014.

Marcus Jorgensen. “Using mathematics autobiographies to help students identify critical moments important to their success.” Southwest Association of Developmental Education. South Jordan, UT. Oct. 2013.

Marcus Jorgensen. "Using mathematics autobiographies to help students identify critical moments important to their success." 20th Annual Conference of Adults Learning Mathematics. Caerleon, Wales. July 2013.

Marcus Jorgensen. “Relevance as a bridge between college-preparation adults and the world.” 18th Annual Conference of Adults learning Mathematics. Dublin, Ireland. June 2011.

Marcus Jorgensen. “Reflecting on Current Practice Using 19th Century Voices.” American Mathematical Association of Two-Year Colleges. Boston, MA. Nov. 2010

Marcus Jorgensen. “Connecting with the Past: Lessons Learned from 19th-Century Textbooks.” National Council of Teachers of Mathematics. San Diego, CA. Apr. 2010

Marcus Jorgensen. “Developmental Math: Building on a 19th Century Foundation.” Poster Session. National Association of Developmental Education. Columbus, OH. Feb. 2010

Marcus Jorgensen. “Developmental Math: Building on a 19th Century Foundation.” Southwest Association of Developmental Education. Las Cruces, NM, Nov. 2008

Marcus Jorgensen. “Accreditation: Don’t worry; be happy.” Assessment Institute annual conference. Indianapolis, IN, Nov. 2007.

Mark Bezzant, **Marcus Jorgensen**, Linda Makin, Cameron Martin, and Robert Loveridge. “Accreditation: Solid assessment.” Assessment Institute annual conference. Indianapolis, IN, Oct. 2006.

Ronni Hendel-Giller, Diane Gayeski, **Marcus Jorgensen**, and Don Winiecki "Webs of Learning: Student and Instructor Perspectives on Online Distance Education." International Society for Performance Improvement annual conference. San Francisco, Apr. 2001.

Marcus Jorgensen. “Do You Have What It Takes to be a Performance Technologist?.” International Society for Performance Improvement annual conference. San Francisco, Apr. 2001.

Marcus Jorgensen. “Do You Have What It Takes to be a Human Performance Technologist?.” Poster session. International Society for Performance Improvement annual conference. Cincinnati, OH, Apr. 2000.

Awards

Trio Instructor of the Year Award, Utah Valley University, for the 2012-2013 academic year.

Faculty Excellence Award, University College, Utah Valley University, for the 2011-2012 academic year.

J.C. Penney Golden Rule Award and the Military Outstanding Volunteer Service Medal for outstanding support given to a disadvantaged elementary school in Oklahoma City (tutoring, student-of-the-month awards, playground & grounds maintenance).

Coast Guard Commendation Medal for service as Director of the Institute and, among other things, “employing a team approach to problem-solving ... in the deploying of the new centrally managed tuition assistance program delivering equal access to educational funds by all personnel....”

Meritorious Service Medal for development of first U.S. Coast Guard International Strategic Plan.

Coast Guard Commendation Medal as the head of a special temporary training detachment that was critical to the successful deployment of Reserve Forces in support of Operation Desert Storm.

Coast Guard Commendation Medal for outstanding service as Director of the Pacific Area Training Team and helping to improve the performance of operational units through outstanding training and job-aids.

Coast Guard Commendation Medal for “ground-breaking efforts” in assessing the status of Haitian Navy and helping to develop an assistance plan “that was approved at the highest levels of U.S. leadership” in connection with Operation Uphold/Support Democracy.

Coast Guard Achievement Medal for service as the Assistant Chief of Training for a technical training center. Among other things, worked with each of the programs to successfully institute an Instructional Systems Design methodology.

Coast Guard Meritorious Unit Commendation for implementing six major training initiatives at the Coast Guard Institute while serving as Director. Unit Commendations were also received at other units with which I served; i.e., the Pacific Area Training Team, Training Center Petaluma, the Coast Guard Academy, and a special Training Detachment during the Gulf War. [The latter was presented to me personally by the Secretary of Transportation.]

Coast Guard Meritorious Team Commendation as a member of the Diversity Summit Support Team for serving as a panel member on women’s issues.