

CURRICULUM VITAE

DONNA L. WEBB

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EDUCATION

- 2012 – 2015 *Doctorate of Education in Educational Leadership, Curriculum and Instruction* – Portland State University, Portland, OR
- 2009 – 2011 *Masters of Science, Curriculum and Instruction* – Portland State University, Portland, OR
- 1981 – 1985 *Bachelor of Arts, Major: Elementary Education, Minor: Biology* - University of Dallas, Irving, TX

TEACHING CREDENTIALS AND CERTIFICATIONS

Active Teaching Licenses in Texas and Oregon

Certified in Skills for Adolescence (1988), Sheltered/Whole Language Acquisition (1987), and Sheltered Instruction Observation Protocol (2004)

EMPLOYMENT

- 2015 – present **Assistant Professor of STEM Education, George Fox University, Newberg, OR**
Responsibilities:
- Co-instructor – EDUC/ELED 371: Curriculum Design with ESOL
 - Co-instructor - EDUC 343: Adventures in Math and Science I
 - Co-instructor - EDUC 344: Adventures in Math and Science II
 - Instructor – EDUC 485: Advancing STEAM through Engineering Design
 - Instructor - ELED 413: Reading and Writing Methods
 - Instructor – EDUC 381: Classroom Management for All Learners
 - Instructor – EDUC 353: Trends & Issues Mid-Level Education
 - Instructor – EDUC 375: Practicum I (including edTPA support)
 - Instructor – ELED 490: Senior Seminar (including edTPA support)
 - Instructor – ELED 375/475: Practicum I & II
 - Instructor – ELED 344: Adventures in Math and Science II
 - Supervision – Observed teacher candidates in clinical practice
 - Cohort Leader – ELED PS4; EDUC 2019-2020
 - Cohort Advisor – EDUC 2016-2020

- Director of UGTE Scholarship Committee
- Senate member (2016 – 2019)
- CAEP Sub-committee member (2017-2018)

2012 – 2017 **Independent Curriculum Writer, Scholastic Inc., New York, NY**

Responsibilities:

- Writer of monthly Teacher’s Guide for *SuperScience* magazine (creator of lesson plans, student skill sheets, and interactive games)
- Aligned lessons with Next Generation Science Standards and CCSS

2014- 2015 **Independent Curriculum Writer, Scholastic Entertainment, New York, NY**

Responsibilities:

- Writer of The Magic School Bus Rides Again TV Show Curriculum Scope and Sequence
- Science Consultant for The Magic School Bus Rides Again TV Show Episode Drafts
- Created three “maker-informed” activities to align with TV Show

2014 – 2015 **Professional Development Instructor, Portland Metro STEM Partnership, Portland, OR**

Responsibilities:

- Co-instructor for Advancing STEM Instruction through Engineering Design
- Co-instructor for Culturally Responsive Pedagogy in STEM

2014 – 2015 **Adjunct Professor, Portland State University, Portland, OR**

Responsibilities:

- Instructor - CI 548 : Advanced Science Methods
- Instructor - CI 517: Integrated Methods: Science

1997 – 2005 **Science Teacher, Beaverton School District, Beaverton, OR**

Responsibilities:

- 7th grade teacher at Conestoga Middle School
- 8th grade teacher at Highland Park Middle School
- Developed study skills program utilizing high school volunteers
- Engaged in Vernier training to promote accurate data collection for scientific inquiry
- Engaged in Inspiration software training to incorporate use of graphic organizers
- Team leader, Site Council and Leadership Team member, Middle School Curriculum Committee member
- Taught one section of Language Arts (2000 – 2001)
- Item writer for Oregon CIM 8th grade Science exam
- District curriculum writer for middle school science

1993 – 1997 **Science Teacher, Fort Bend Independent School District, SugarLand, TX**

Responsibilities:

- 6th grade teacher at First Colony Middle School
- District curriculum writer and staff development instructor
- Team leader, Technology Committee member, Science Fair Coordinator

1985 – 1993 **Science Teacher, Spring Branch Independent School District, Spring Branch, TX**

Responsibilities:

- 6th grade teacher at Northbrook Middle School, Spring Oaks Junior High School
- 6th – 8th grade ESL science teacher
- 8th grade Skills for Adolescence teacher
- Developed ESL science curriculum with technology integration
- Worked on Leadership Team to plan new school utilizing middle school concepts and innovative technology to teach at-risk, high ESL population of students
- Science Department Chairman, Technology Committee and Site Council member, National Junior Honor Society Advisor
- Texas Middle School Conference Instructor
- District writer of curriculum; middle school AIDS unit and middle school alignment
- Staff development instructor

DISSERTATION AND THESIS

Webb, D. L. (2015). *Engineering professional development: Elementary teachers' self-efficacy and sources of self-efficacy* (Doctoral dissertation). Available from PDXScholar database. (No. 2337).

Webb, D. L. (2011). *Effects of relaxation exercises on student attention to reading and reading comprehension* (Unpublished master's thesis). Portland State University, Portland, Oregon.

PUBLICATIONS

Peer Reviewed

LoFaro, P. K., & Webb, D. L. (in prep.). Disrupting racial ambivalence in a STEAM methods course for prospective elementary teachers. *Cultural Studies of Science Education*.

Webb, D. L., & LoFaro, P. K. (in prep.). Examining sources of engineering teaching self-efficacy in a STEAM methods course for prospective elementary teachers. *School Science and Mathematics*.

Webb, D. L., & LoFaro, P. K. (under review). Developing prospective elementary teachers' self-efficacy for culturally responsive teaching of engineering. *Journal of Science Teacher Education*

Practitioner

Webb, D. L. (2017, May). SuperScience teacher's guide. *SuperScience*, 28(8), 1-12.

Webb, D. L. (2017, April). SuperScience teacher's guide. *SuperScience*, 28(7), 1-12.

Webb, D. L. (2017, March). SuperScience teacher's guide. *SuperScience*, 28(6), 1-12.

Webb, D. L. (2017, February). SuperScience teacher's guide. *SuperScience*, 28(5), 1-12.

Webb, D. L. (2017, January). SuperScience teacher's guide. *SuperScience*, 28(4), 1-12.

Webb, D. L. (2016, November/December). SuperScience teacher's guide. *SuperScience*, 28(3), 1-12.

Webb, D. L. (2016, October). SuperScience teacher's guide. *SuperScience*, 28(2), 1-11.

Webb, D. L. (2016, September). SuperScience teacher's guide. *SuperScience*, 28(1), 1-11.

Webb, D. L. (2016, May). SuperScience teacher's guide. *SuperScience*, 27(8), 1-8.

Webb, D. L. (2016, April). SuperScience teacher's guide. *SuperScience*, 27(7), 1-8.

Webb, D. L. (2016, March). SuperScience teacher's guide. *SuperScience*, 27(6), 1-8.

Webb, D. L. (2016, February). SuperScience teacher's guide. *SuperScience*, 27(5), 1-8.

Webb, D. L. (2016, January). SuperScience teacher's guide. *SuperScience*, 27(4), 1-8.

Webb, D. L. (2015, November/December). SuperScience teacher's guide. *SuperScience*, 27(3), 1-8.

Webb, D. L. (2015, October). SuperScience teacher's guide. *SuperScience*, 27(2), 1-8.

Webb, D. L. (2015, September). SuperScience teacher's guide. *SuperScience*, 27(1), 1-8.

Webb, D. L. (2015, May). SuperScience teacher's guide. *SuperScience*, 26(8), 1-8.

Webb, D. L. (2015, April). SuperScience teacher's guide. *SuperScience*, 26(7), 1-8.

Webb, D. L. (2015, March). SuperScience teacher's guide. *SuperScience*, 26(6), 1-8.

Webb, D. L. (2015, February). SuperScience teacher's guide. *SuperScience*, 26(5), 1-8.

Webb, D. L. (2015, January). SuperScience teacher's guide. *SuperScience*, 26(4), 1-8.

Webb, D. L. (2014, November/December). SuperScience teacher's guide. *SuperScience*, 26(3), 1-8.

- Webb, D. L. (2014, October). SuperScience teacher's guide. *SuperScience*, 26(2), 1-12.
- Webb, D. L. (2014, September). SuperScience teacher's guide. *SuperScience*, 26(1), 1-11.
- Webb, D. L. (2014, May). SuperScience teacher's guide. *SuperScience*, 25(8), 1-8.
- Webb, D. L. (2014, April). SuperScience teacher's guide. *SuperScience*, 25(7), 1-8.
- Webb, D. L. (2014, March). SuperScience teacher's guide. *SuperScience*, 25(6), 1-8.
- Webb, D. L. (2014, February). SuperScience teacher's guide. *SuperScience*, 25(5), 1-8.
- Webb, D. L. (2014, January). SuperScience teacher's guide. *SuperScience*, 25(4), 1-8.
- Webb, D. L. (2013, November/December). SuperScience teacher's guide. *SuperScience*, 25(3), 1-8.
- Webb, D. L. (2013, October). SuperScience teacher's guide. *SuperScience*, 25(2), 4-12.
- Webb, D. L. (2013, September). SuperScience teacher's guide. *SuperScience*, 25(1), 1-8.
- Webb, D. L. (2013, May). SuperScience teacher's edition. *SuperScience*, 24(8), 1-8.
- Webb, D. L. (2013, April). SuperScience teacher's edition. *SuperScience*, 24(7), 1-8.
- Webb, D. L. (2013, March). SuperScience teacher's edition. *SuperScience*, 24(6), 1-8.
- Webb, D. L. (2013, February). SuperScience teacher's edition. *SuperScience*, 24(5), 1-8.
- Webb, D. L. (2013, January). SuperScience teacher's edition. *SuperScience*, 24(4), 1-8.
- Webb, D. L. (2012, November/December). SuperScience teacher's edition. *SuperScience*, 24(3), 1-8.
- Webb, D. L. (2012, October). SuperScience teacher's edition. *SuperScience*, 24(2), 1-8.
- Webb, D. L. (2012, September). SuperScience teacher's edition. *SuperScience*, 24(1), 1-8.

Book Reviews

- Webb, D. L. (2013). Review essay: STEM lesson essentials, integrating science, technology, engineering, and mathematics. *Teacher Education and Practice*, 26(2), 356-361.

Blog Post

- Webb, D. L. (2019, April 11). Fostering CER through science talk.
https://www.scholastic.com/teachers/blog-posts/scholasticcom-editors/2018-2019/fostering-cer-through-science-talk/?eml=Teachers%2Fsmid%2F20190412%2FFacebook%2FTeachersPage%2FCM%2FSuperScienceCER&linkId=66038079&fbclid=IwAR17dr66NaYxRMmVrWm-Ti8XucDP8LhBVW5hTdw_WgrMuCdsUGwIuKSIjfe

PRESENTATIONS AT PROFESSIONAL CONFERENCES

Webb, D. L., LoFaro, K. P. (2019, April). *Developing prospective elementary teachers' self-efficacy for culturally responsive teaching of engineering*. Interactive paper/poster presentation at the 92nd Annual International Conference of National Association of Research in Science Teaching, Baltimore, MD.

Webb, D. L., LoFaro, K. P., Spencer, J. (2018, October). *Critically examining the paradox of gender representation in STEM curriculum*. Session presented at 11th Annual Meeting of Northwest Teaching for Social Justice Conference, Portland, OR.

Webb, D. L., & LoFaro, K. P. (2018, February). *Deconstructing the false neutrality of STEM pedagogy*. Session presented at 21st Annual Meeting of Oregon Association of Teacher Educators Conference, Monmouth, OR.

Webb, D. L., & LoFaro, K. P. (2017, October). *Deconstructing the false neutrality of STEM pedagogy*. Session presented at 10th Annual Meeting of Northwest Teaching for Social Justice Conference, Seattle, WA.

Tran, Y. & Webb, D. L. (2016, July). *Redefining student teaching experiences: Collaboration between university education / computer science students and K-12 districts*. Session presented at Fifth Annual STEM Forum & Expo of NSTA, Denver, CO.

Webb, D. L. (2013, May). *Effects of relaxation exercises on student attention to reading and reading comprehension*. Session presented at Annual Conference of Action Research Network of the Americas, San Francisco, CA.

GRANT WRITING

National Science Foundation, CS For All Grant Proposal (2017). *CS Co-teaching partnerships: Equity and access in elementary classrooms*. (Tran: PI; Webb: Co-PI). Not funded.

National Science Foundation, STEM + C Grant Proposal (2015). *Reimagining CODE: Computational opportunities for interdisciplinary learning in elementary classrooms*. (Tran: PI; Webb: Co-PI). Not funded.

National Science Foundation, Advancing Informal STEM Learning Grant Proposal (2014), *The Magic School Bus 360° innovation in design project*. Assisted in writing Literature Review section and sample curriculum materials to fund informal education initiative for Magic School Bus 360° TV Show. Not funded.

Howard Hughes Medical Institution Grant Proposal (2013), *Portland State STEM initiative: Supporting, teaching and engaging minds in STEM*. Assisted in writing Literature Review section to fund the creation of a STEM Institute at Portland State University. Awarded \$2 Million dollars.

Beaverton Education Association Grant Proposal (2006). *Financial literacy in the classroom*. Awarded \$900.

Fort Bend ISD Grant Proposal (1996), *Bringing the outdoors in*. Awarded \$1200.

PROFESSIONAL MEMBERSHIPS AND RECOGNITIONS

- Current member of School Science and Mathematics Association
- Current member of the National Association of Research of Science Teaching
- Nominated for the Faculty Achievement Award for Teaching at George Fox University (2018)
- Invited by the Lemelson Foundation to the Invention Education Convening in Washington, DC (2108, November)
- Guest Speaker at 2018 UGTE Senior Banquet at George Fox University
- Member of National Science Teachers Association (2011- present)
- Member of American Educational Research Association (2013-1016)
- Acceptance into and completion of “Leadership Development Initiative Program” through George Fox University (2016-2017)
- Interviewed and quoted in journal article: Fink, J. (2014). Blast off! What the next generation science standards mean for your classroom. *Instructor*, 123(5), 21-23.
- Member of Action Research Network of the Americas (2013-2014)
- Member and previous officer of Kappa Delta Pi (2011-2015)
- Committee member of Portland State University Consortium (2014-2015)
- Nominated School Teacher of the Year (First Colony MS, 1994; Northbrook MS, 1991: Spring Oaks MS, 1987-1989)
- Received PTA Award of Excellence for developing AIDS curriculum (Spring Oaks MS)

SERVICE

Service to George Fox University:

- Assisted team on Servant Engineering Project, Food Computer (2017-2018; won school competition)
- Initiated Urban Educator workshop and Culturally Sustaining Pedagogy book study for UGTE (2018)
- Volunteered for committee to hire Assistant Professor of Literacy (2018)
- Volunteered to revise Dispositions rubric for College of Education (2018)
- Developed and lead initiative to integrate edTPA into UGTE courses (2017-2018)
- Co-developed syllabus for new course MATG 550: Science Pedagogy (2017)
- Co-developed and continued to revise lesson plan template for College of Education (2017 - 2018)

- Updated UGTE Advising Guide for Genesis and developed Faculty Tips for Advising Guide (2017-present)
- Developed and shared edTPA Resources with College of Education (2016-2017)
- Served on Undergraduate Senate (2016 – 2019)
- Served on iFAB Committee (2016-present)
- Led and coordinated Scholarship Competitions (2015-present)
- Tutored ELL student through edTPA process (2016)
- Wrote letters of recommendation for UGTE students (2016- present)
- Volunteered for Fridays at Fox (2016- present)
- Volunteered for Bruin Preview (2016- present)

Service to Community:

- Guest speaker at Dundee Elementary School, Newberg School District (2018-2019)
- Spoke at Newberg School District Board Meeting about GFU Coding Program (2019)
- Coordinated care packages for second grade class at Rocky Heights Elementary School in Hermiston School District (2018)
- Guest speaker at Chehalem Elementary STEM Expo, Beaverton School District (2014-2018)
- Sponsor student, Karen Munoz, through World Vision who is studying to become a teacher in Mexico (2007 – 2018)
- Panel speaker at Portland State University discussing doctoral program (2017)
- Volunteer at Winterhaven Elementary School, Portland Public Schools (2014 - 2016)
- Mentored Lego Legends Robotics team – won State Championship in First Lego League (2015)
- Intel NWSE science fair judge (2013 – 2015)