

**MARIA J. GROSS**  
**Biographical Sketch**

**Professional Preparation**

- Ed.D. University of Washington: Educational Leadership - Higher Education
- Residency/Lifetime Substitute Certification Washington: Mathematics/Chemistry/Earth Science 5-12
- M.A. Ashford University: Teaching/Concentration – Mathematics & Chemistry 5-12
- Certification Arkansas: Mathematics, Physics & Earth Science
- B.S. Purdue University: Chemical Engineering

**Professional Appointments**

2021 - present	Rotary Club of Huntington Beach Youth Services Chair/Interact Facilitator Huntington Beach High School
2019 – 2021	AACTE – Global Diversity Committee, Elected Member
2018 – present	Liliir Education Project (South Sudan), Board of Directors – Secretary
2017 – present	Azusa Pacific University, Clinical Experiences, Assistant Professor
2017 – 2017	New Horizons Ministries, Board Member
2016 – 2017	City University of Seattle, Associate Dean – School of Education
2015 – 2016	R. Merle Palmer Minority Scholarship Foundation, Board President
2013 – 2016	University of Washington Tacoma, Lecturer & Field Supervisor: Secondary Mathematics Education
2012 – 2016	R. Merle Palmer Minority Scholarship Foundation, Executive Board
2012 – 2013	Tacoma Public Schools, Career and Technical Education Program Advisory Committee
2011 – 2016	Tacoma Community College, Professor Mathematics & Engineering
2011 – 2016	Tacoma North Rotary, Literacy Chair
2010 – 2014	University of Phoenix, Online Instructor Natural Sciences Department
2007 – 2011	K12/Aventa, Master Teacher & on-line High School Math Teacher
2004 – 2011	King's Way Christian Schools, K-12 Math/Science Department Head and Teacher: Mathematics (Pre-algebra to AP Calculus AB), Physics & Honors Physics, Chemistry & pre-AP Chemistry, 7 <sup>th</sup> Grade Life Science & 8 <sup>th</sup> Grade Physical & Earth Science
2003 – 2004	Little Rock Christian Academy, High School Math & Science Teacher: Physics, Chemistry, Algebra 1
2001 – 2003	Arkansas Baptist Elementary School, Substitute Teacher & Science Application Instructor
1998 – 2000	S. St. Marys St. Elementary School, SAE A World In Motion Instructor
1989 – 1997	Woodward-Clyde Consultants/BH&E, Inc., Environmental Consultant
1986 – 1987	Rainy River Community College, Engineering Dynamics Instructor
1985 – 1989	Boise Cascade Paper Company/Betz Paperchem, Chemical Process Engineer

**Products - Science Teacher Development and Students Learning**

“Adapting Textbook Curriculum to Thematic Lessons”, NSTA Area Conference, Portland, OR, 2008.

## **Products - Math Teacher Development and Students Learning**

Secondary Education – Mathematics, Tacoma Community College AAS Degree option (EdD Practicum project – new option) (<https://www.tacomacc.edu/areasofstudy/collegetransfer/mathematicssecondary/>)

“Mathematics Progression Goals: An Action Research Project for King’s Way Christian Schools”, January 2007.

## **Products – Teacher Preparation**

“The Role of Preservice Clinical Experiences in Developing Teacher Cultural Competency: Cultural Identity and Awareness”, in progress.

“Collaborative Community Clinical Practice Model at City University of Seattle”, March 2017.

Gross, M., & Aguirre, J. (2016). “Math Is What I Love. I Think If I Got Anything from Community College, It’s the Beauty of Math.”: Promoting Mathematics Teacher Education Through Community College Outreach. *Community College Journal of Research and Practice*, 1-4.

Gross, M. J. (2016). Building on Community: A Community-Built Pipeline of Community College Educated Secondary Mathematics Teachers of Color.

“CommunityBuilt Teachers: Bridging Community Colleges to University Teacher Preparation Programs”, STEMtech Presentation, June 2015.

## **Products - Other Scholarship**

“Increasing Graduation Rates by Improving Community Representation - A Study of Washington Urban School Districts”, September 2014.

## **Synergistic Activities - Projects Supporting Teachers**

Instructional Faculty - Community College Math Partner, (2015 - 2016). *Smarter Balanced Professional Development for Washington High-Need School*. (\$530,000)

Instructional Faculty - Community College Math Partner, (2014-2015). OSPI Grant. CCSS Professional Development for Washington High Need Schools (\$796,415).

Project Administrator, (2014). Rotary International District 5020 Community Grant. Library Books Point Defiance Elementary (\$1040).

Project Coordinator, (2012). Rotary International District 5020 Community Grant. Dictionaries for 3<sup>rd</sup> Graders (\$4200).

## **Teaching Experience – Higher Ed**

TESP 501 - The Art of Teaching I: Foundations of Teaching

TESP 502 - Science of Teaching 1: How Students Learn: Educational Psychology, Neuroscience, and Theory

TESP 503 - Soul of Teaching: Tapestry of American Education

TESP 504 - Schools and Educational Systems

TESP 512 – The Science of Teaching II: Effective Assessment Strategies for ALL Learners

TEP 522 - Methods of Teaching Mathematics (K-8)

TEP 533 – The Differentiated Classroom: Maximizing Capacity of Each Learner Grades 7-12

TEP 534 - Secondary Pedagogy 2: Content-Specific Strategies, Teaching, and Assessment Experiences

TEP 561 - Clinical Practice 1

TEP 562 - Clinical Practice 2T EDSM 517 – Secondary Math Methods I

T EDSM 519 – Secondary Math Methods II

T EDUC 587 – Field Experience I (September Experience)

T EDUC 590 – Reflective Seminar: Essentials of Teaching Practice (Secondary Mathematics and Science)

MATH& 131, 132 – Math for Elementary School Teachers

MATH 95 – Intermediate Algebra

MATH 90 – Elementary Algebra

MATH 85 – Introduction to Algebra