Karen Plaster

Work one on one with STEM Professionals as they transition into teaching 12 grade
 Math or Science classroom, coach collaborative teachers as they work with Woodrow Wilson Fellows

Educational Technology instruct(Fall2011, 2012, 2013)

- Topics 21st Century Skills, Digital Citizenship, PLE, Webquests, Vode**psits**(adios Teaching Math to National Level Learners Instruct(Spring 2012, 2013)
 - Topics: History of Math curriculum; Common Core Standards; Integrating Inquiry, Manipulatives, Literacy, Writing, and Technology into mathematics lessons; Field Observations

Leadership Through LEG@mldrs Colloquia (Fall 2018, 2019)

Think Tank to Shark Tank: Engineering to Entrepreneur Summer Camp (Summer 20,14, 2015 2018, 2019)

 Topicsneeds assessment, research, product design, business plan and marketing processesCamp designed for middle school students; partnered with the Barker Center for Economic Education Development. Ran the camp in 2015 with Akron Urban League and the Boys and Girls Club of the Western Reserve.

Long Term Substitute Teacher

- Mogadore High Schoonpril 2011
 9th to 12th gradeAdvanced MathematicsAlgebrall; Intermediate Math III and Geometry
- North CantorMiddle School, Long Term Substitute Teachen,uary to February 2011 6th grade Mathematics, 4 sections and one section of English

R.R. Donnelley & Sons Compatyillard, Ohio Manufacturing Plant, 1993996

Manufacturing Facilitator in ath,800-employeeprinting and manufacturing plant of large bound books.

Education & Credentials

The University of AkronAkron, Ohio

Master of Science in Integrated Mathematiwith Licensure (Grades12) 2010

The Ohio State Universit@olumbus, Ohio

Bachelor of Science in Industrial and Systems Engineering, 1993

Honors & Associations

Crain's Cleveland Business 2019 Notable Women in STEM and the

Dorthey O. Jackson Award 2019 from Akron's Women's Network for Girls Who Code

College of Education Outstanding Teaching Award 2017

The University of Akron Excellence in Community Engagement Award 2016

State of Ohio FLL Outstanding Volunteer Award 2015

College of Education Outstandingrvice Award 2015

National Council of Teachers of Mathematics (NCTM)

- Ohio Council of Teachers of Mathematics (OCTM)
- Ohio Mathematics Education Leadership Cou(QMELC)
- Greater Akron Mathematics Educators Soc(@)AMES)

National Science Teacherss Asiation (NSTA)

Publication

Plaster, K. & Pachnowski, L.M. (2018). Providing meaningful feedback to student math samples using the Mathematical Practice the Ohio Journal of Teacher Education, 32(Fall),37-50.

Presentations

Plaster, K., Pachnowski, L.M. & Green, S. (2019 October). *Bl&mdireopreneurship and STEM Education: From Think Tank to Shark Tank.* Presented at Ohio Council for the Social Studies (OCS) Columbus, Ohio.

Plaster, K. & Ronnebaum, B. (2019, February). Robotics FIRST in Class. Presented at Ohio Educational Technology Conference (OETC): Columbus, Ohio.

Plaster, K. (2018, November). *Robotics FIR* Fresented at Greater Cleveland Council of Teachers of Mathematics (GCCTM): Breaking it Down and Enhancing the "M": University Heights, Ohio.

Walsh, V.L. & Plaster, K. (2018, November). *Join the Maker Movem*eresented at Greater Cleveland Council of Teachers of Mathematics (GCCTM): Breaking it Down and Enhancing the "M": University Heights, Ohio.

Pachnowski, L.M. Ralaster, K. (2018, Novembe@irls Who Code Clubs and other Coding Topics. Presented at Greater Cleveland Council of Teachers of Mathematics (GCCTM): Breaking it Down and Enhancing the "M": University Heights, Ohio.

Plaster, K. & MartirClay, A. (2018, OctoberRobotics FIRST. Presented at NEOSTREAM Educators Day: Cleveland, Ohio.

Plaster, K., Pachnowski, L., & Baylor, L. (2018, June). *Girls Who Code Programs in Akron and Canton: Show and Tell*

Ronnebaum, B. & Plaster, K. (2017, October). *Did You Know that you Can Program LEGO Bricks?* Presented at the 67 Annual Ohio Orderence of Teachers of Mathematics (OCTM): Columbus, Ohio.

Walls, J. & Plaster, K. (20) February). *Hands on High School* Presented at the annual Greater Akron Mathematics Educators Society(GAMES): Akron, Ohio.

Makki, N., Holliday, G.M., & Plaster (2016, Decembe): Shaping teaching practice through field-based action research. Presented at the National Soige Teachers Association (NSTA) Conference: Columbus, Ohio

Plaster, K. (2016, Novembel) there an App (or Website) for that? Presented at the Greater Akron Mathematics Educators Socies Akron, Ohio.

Plaster, K., Broadway, F. (2016, October) terns in Art. Presented at the &Annual Ohio Conference of Teachers of Mathematics (OCTM): Sandusky, Ohio.

Plaster, K., (2016, October). A Fresh Look at Abstrattresented at the &Annual Ohio Conference of Teachers of Mathematics (OCTM): Sandusky, Ohio

Makki, N., Evans, E., & Plaster, K. (2016, April). *Teachers' Understandings and Perceptions in an Engineering Design Course for Educators.* Presented at

presented to the annual international meeting of the American Educational Research Association (AERA): Philadelphia, PA.

Holliday, G.M., Makki, N., & Plaster, K. (2014, April). *Woodrow Wilson fellows: Shaping teaching practice through field-based action research.* Presented the annual national meeting of the (Ased practi-31pe 4 (al Sc)4 (-6 (t)-9 (hr)-1 (o)-1 (ugh f)-9 (i)-5 (e)-6 (l)-5 (e)-6 (l)-6 (l)-6

- CoPrincipalInvestigator(with PachnowskiL, Makki, N, and Holliday, G.N.Ohio STEM Learning Network (OSLN)JA Woodrow Wilson Teaching Fellowship, Ohio Depant of Education, \$15,50 (2014).
- CoPrincipal Investigato(with PachnowskiL, Makki, N, and Holliday, G.N.Ohio STEM Learning Network (OSLN)JA Woodrow Wilson Teaching Fellowship, Ohio Depant of Education, \$25,000 (2013).
- Co-Principal Investigatostigate throwskiL, and Holliday). GM. benefits and barriers of audio recording echnology when used during teacher candidate supervisory experiences College of Education, The University of Akson, \$1,935 (2012).

CoPri

ServiceExperience

State of Ohio

ComputerScience State Standards and Model Curricula writing committee 2018

University of Akron Committees

Urban STEM Center, Direct@019 to 2020

College Council, Secreta20192020

Admissions Committe 2018-2019 (chair)

Scholarship Committe 2015, 2016, 2017 chair), 2018 (chair), 2019 (chair)

Dean Search Committe Spring 2017

United Way University of Akno 2016

Commencement Marshaff, all 2015, 2016 Spring 2016

Teacher Academy Visit Darall 2016

Counselor Visit DaFall 2016

Student Teaching committe@015, 20162017

Woodrow Wilson Committee Fall 2011 to 2016

CAEP Clinical & Field SObmmittee 2013, 2014, 2016

Woodrow Wilson №2 Curriculum Committee (w/ Akron and Canton Public Schofals) 2011, 2012, 2013

TPA committeeFall 2011, 2012, 2013

Education Minor Committe 2012, 2013

Ed. Masters requirement Committe Spring 2012

FIRST LEGO League (FLL)

Director of the University of Akron's *FIR*LEGO League (FLL) District tournament held Jan. 2014, 2015, 2016, 2017, 2018 & Dec. 2018, 2019

- Hosted 40 FLL teams (made of 4hrough 8h graders) and 40r. FLL teams from NE Ohio and their families annually
- Partnered with the College of Engineering, Rockwell automation and NE Ohio STEM alliance leaders
- Attended Ohio FLL enetings and training

FIRSTWorld Tournament Project Judge018, 2019

Kirtland Regional FLL tournament, Tournament Dire 2001,5

SnowedIn Regional FLL tournament at the University of Akron, Tournament Diractor Solon Regional FLL tournament, Project Ju20e3 Field Manager2014; Tournament Director. 2015

Cleveland Regional tournament, Head Projection 2015

Lorain Community College Regional FLL tournament, Field Ma22018, 2015

Hathaway Brown Regional FLL tournament, Coree (saludge 2013; Project Judge 2014

Hudson Regional FLL tournament, Field Manager, 2013

Seton Catholic Regional tournament, assisted in running tournar 2014

State of Ohio Tournament, Project Judae15, 2019, 2020Field Manager2016-2018

Organized FLL Judges Training at University of Ak2013, 2014, 2015 Organized FLL Scrimmage at University of Ak2013, 2014, 2015, 2016, 2017, 2018, 2019 Organized FLL Programming workshop at the University of Akron for FLL 2016 as

NEOHBOT-SMissionto grow FLL throughout Northeast Ohio Co-Founder Board Member 2014 - current Outreach Tournament committee chair

Summit & Stark County

Code Hopper, organizer 2018 to present Code GirlFall 2016/2017, 2018 Girls Who Codeeader,Fall 2016 to 2019