

# Holly Pope

610 Bowdoin Lane #232B • Stanford, CA 94305

724.417.1164 • hpope@stanford.edu

Twitter: @hollypope • LinkedIn: [www.linkedin.com/in/holly-pope-93424044](http://www.linkedin.com/in/holly-pope-93424044)

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## Education

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<b>Stanford University</b> , Stanford, CA	2012 – 2017
<b>Doctoral Candidate</b> , Curriculum Studies and Teacher Education, Mathematics Education Advisors: Jo Boaler and Jennifer Langer-Osuna <b>Dissertation:</b> Examining the Digital Math Game Play Experiences of Racially and Economically Diverse Elementary Students Committee Members: Jo Boaler, Jennifer Langer-Osuna, Dan Schwartz, Keith Devlin	
<b>Gannon University</b> , Erie, PA	2011
<b>Master of Education</b> , Curriculum and Instruction Applied Master's Portfolio: Equity in Mathematics Education in an Elementary Charter School	
<b>Geneva College</b> , Beaver Falls, PA	January 2000
<b>Bachelor of Science</b> , Elementary Education <b>Certifications:</b> Elementary Education (K-6); Middle School Mathematics (7-9)	

## Distinctions and Awards

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<b>Fellowship</b> , Stanford Graduate Voice and Influence Program, Clayman Institute for Gender Research	2016
<b>Inaugural Recipient</b> , Doctoral Student Technology and Equity in Learning Opportunities (TELOS) Grant	2016
<b>Doctoral Student Recognition Award</b> , Stanford GSE Student Guild	2016
<b>Women's Achievement Club Past Awardees Honors</b> , Aliquippa Women's Achievement Club	2011
<b>Sabina Walsh Scholarship Award</b> , Pennsylvania Association of School Retirees	1998
<b>Peer Counseling Celebration of Excellence Award</b> , Office of Minority Affairs, University of Akron	1995

## Research Experience

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<b>Stanford University</b>	
<b>Research Assistant</b> – Developing Written Assessments and Game-Based Assessment Tools Principal Investigators: Jo Boaler and Keith Devlin	2015 – 2016
<ul style="list-style-type: none"><li>Designed digital math game evaluation rubric based on math complexity, identity impact, and game engagement/features</li><li>Collected, evaluated, modified, and created written complex performance tasks</li><li>Collected and evaluated digital mathematics games using the game evaluation rubric to be used as assessment tasks</li></ul>	
<b>Research Assistant</b> – Impact of a Mathematics MOOC for Transforming Student Achievement (NSF) Principal Investigators: Thomas Dee and Jo Boaler	2014 – 2015
<ul style="list-style-type: none"><li>Collected survey data using Qualtrics</li><li>Managed participant communication</li><li>Troubleshoot technical and study issues</li></ul>	
<b>Research Assistant</b> – Wuzzit Trouble Pilot Study of Learning Outcomes Principal Investigator: Jo Boaler	2014
<ul style="list-style-type: none"><li>Collected student survey and math skills assessment data</li></ul>	

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- Factorial Analysis of Survey Data
- Qualitative coding of student work using rubric
- Ran repeated measures ANOVA using Stata statistical software

**George Lucas Education Foundation/Stanford Center for Assessment, Learning, and Equity** 2013 – 2015  
**Research Assistant** – Learning Through Performance in Middle School Math and Science Project

Principal Investigators: Linda Darling-Hammond and Raymond L. Pecheone

- Assisted in 6<sup>th</sup> grade math project-based curriculum development
- Co-designed and implemented professional development for participating teachers
- Conducted data collection via surveys, classroom observations with video, and interviews
- Engaged in design-based research process

## Professional Experience

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### *Higher Education*

#### **Stanford University**

**Co-Instructor**, Quantitative Reasoning and Mathematics course sequence (EDUC 263E, F, G) 2013, 2015 – 2016

- Designed learning experiences to teach course themes:
  - Planning, assessing, and teaching elementary mathematics
  - Deepening content knowledge of preservice teachers
  - Examining issues of equity in mathematics classrooms
- Tailored instruction to meet the needs of preservice teachers in alignment with Stanford Teacher Education Program tenets
- Provided meaningful feedback and support to preservice teachers on course assignments

**Online Course Assistant**, Jo Boaler’s “How to Learn Math” (EDUC 115N) Summers, 2013 and 2014

- Assisted in management of online course
- Reviewed and edited captions on course videos
- Managed course forum and facilitated course discussions
- Interacted with course participants via social media

**University Supervisor**, Stanford Teacher Education Program (STEP) 2012 – 2013

- Supervised and mentored elementary Teacher Candidates
- Assisted with lesson planning, course assignments, and school placement issues
- Scored Elementary Performance Assessment for California Teachers (PACT) using PACT rubrics

### *Instructional Leadership*

**Propel Schools, Inc.**; Pittsburgh, PA

**Mathematics Instructional Coach**, Propel Montour 2007 – 2012

- Engaged in coaching cycle (planning, observing/teaching, debrief) with individual math teachers
- Organized, created, and facilitated professional development opportunities for a ll math teachers
- Coordinated and organized curriculum and resource materials
- Analyzed, interpreted, and propagated school-wide achievement data

**Beaver County Head Start**; Aliquippa, PA

**Director/Group Supervisor**, Griffith Heights Center 2000 – 2001

- Created and implemented daily lesson plans in accordance with the Head Start Performance Standards
- Coordinated and supervised activities of the group supervisor, assistant group supervisors, aides, and volunteers

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- Arranged field trips and activities related to instructional themes
- Assessed and strengthened individual social, academic, communication, and motor skills

**In His Hands Daycare; Aliquippa, PA** 1998 – 2000

**Group Supervisor**

- Created and carried out daily lesson plans
- Supervised and led activities with children ages 0 to 12
- Coordinated activities of the assistant group supervisors and aides

Pre-Kindergarten – 8

**Propel Schools; Pittsburgh, PA** 2003 – 2007

**Founding Teacher, Propel Homestead**

- Taught third grade all subjects (math, science, social studies, literacy)
- Taught fifth grade math, science, and history
- Taught sixth grade math, science, and history
- Differentiated instruction according to student needs
- Facilitated the Mathematics Curriculum Committee

**Charlotte-Mecklenburg Schools; Charlotte, NC** 2001 – 2003

**Teacher, Paw Creek Elementary**

- Taught fifth grade, all subjects (math, science, social studies, literacy)
- Differentiated math and reading instruction according to student needs
- Served on Student Support Committee

**In His Hands Daycare; Aliquippa, PA** 1997 – 1998

**Assistant Group Supervisor**

- Assisted supervisor with activities with children ages 0 to 12
- Assisted with general child care duties

## Media Coverage

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[“Stanford Study Shows How Digital Math Games Can Teach More Than Rote Skills,”](#) by Edmund Andrews; *Stanford GSE News* (May 2016).

[“Stanford Study Shows Dramatic Math Improvement From Playing Video Games Just 10 Minutes Per Day,”](#) by Jordan Shapiro; *Forbes.com* (April 2015).

## Publications

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**Pope, H.** (2016). How to Choose Math Games for Children. *New England Mathematics Journal*, 43, 40-46.

**Pope, H., & Mangram, C.** (2015). Wuzzit Trouble: The Influence of a Digital Math Game on Student Number Sense. *International Journal of Serious Games*, 2(4).

## Service

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**Co-organizer** of Stanford Graduate School of Education Students of Color events 2015 – present

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<b>Co-facilitator</b> of Stanford GSE Mathematics Education Research Group (MERGe)	2015 – present
<b>Teacher Mentor</b> of Education and Youth Development Fellows, Haas Center for Public Service	Summer 2015
<b>Member</b> of Stanford GSE Elementary Mathematics Education Research Group (EMERGe)	2014 – present
<b>Co-organizer</b> of Stanford GSE “So, What Are You Working On?” Student Research Conference	2014 – present
<b>Mentor</b> for Stanford Graduate First Generation, Low-Income Program (Grad FLIP)	2014 – 2015

## Presentations

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**Invited Speaker: Pope, H.** (October, 2016). *Teaching, Learning, and Assessing with Digital Math Games*. National Council of Teachers of Mathematics Regional Conference, Phoenix, AZ.

**Invited Panel Participant:** Schneider, E.; Kizilcec, R.; **Pope, H.**; Wojcicki, E.; Keith Devlin, Moderator (May, 2016). *Augmenting Intelligence for Thinking and Perception*, Stanford Media X Conference, Stanford, CA.

**Pope, H.** (May 2016). *Evaluating Digital Math Games for Children*, Stanford GSE “SWAYWO?” Student Research Conference, Stanford, CA.

**Invited Speaker: Pope, H.** (April 2016). *Wuzzit? Digital Math Games in Elementary Education*, Stanford University Games and Interactive Media Speaker Series, Stanford, CA.

**Pope, H.** and Villa, A. (October, 2015). *Evaluating Digital Math Games for Children*, Practical Pedagogies Conference, Toulouse, France.

**Pope, H.** (June, 2015). *Wuzzit Trouble: The Influence of a Digital Math Game on Mathematical Proficiency*, Stanford GSE “SWAYWO?” Student Research Conference, Stanford, CA.

**Pope, H.** (March 2015). *Wuzzit Trouble: The Influence of a Digital Math Game on Student Number Sense*, Stanford GSE Curriculum Studies and Teacher Education Research Symposium, Stanford, CA.

Evans, M. and **Pope, H.** (2010). *Chronicles of a Digital Math Classroom*, Pennsylvania Council of Teachers of Mathematics Conference, Camp Hill, PA.

Smith, L. and **Pope, H.** (2009). *Investigating Investigations*, Pennsylvania Council of Teachers of Mathematics Conference, Pittsburgh, PA.

## Workshops

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**Pope, H.** and Sedlacek, Q. (2015-2016). *Beyond Bar Graphs: Integrating Math and Science, K – 8*. Stanford Center to Support in Excellence in Teaching, Professional Learning Design Lab, Stanford CA.

Boaler, J., Sun, K., and **Pope, H.** (2014). *Mathematics, Mindset, and the Common Core Transition*, North County Professional Development Federation, CA.

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Boaler, J., Sun, K., Selling, S. and **Pope, H.** (2013). *Mathematics, Mindset, and the Common Core Transition*, North County Professional Development Federation, CA.

## Affiliations

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American Educational Research Association	2013 – present
National Council of Supervisors of Mathematics	2010 – present
National Council of Teachers of Mathematics	2008 – present