

## TEXAS STATE VITA

### I. Academic/Professional Background

A.	Name: Dr. Hiroko K. Warshauer	Title: Assistant Professor
----	-------------------------------	----------------------------

### B. Educational Background

<i>Degree</i>	<i>Year</i>	<i>University</i>	<i>Major</i>	<i>Thesis/Dissertation</i>
PHD	2011	University of Texas at Austin	Mathematics Teacher Education	
MS	1976	Louisiana State Univ A&M College	Mathematics, General	
BA	1974	University of Chicago	Mathematics, General	

### C. University Experience

<i>Position</i>	<i>University</i>	<i>Dates</i>
Assistant Professor	Texas State University	2013 - Present
Senior Lecturer	Texas State University	2006 - 2013
Lecturer	Texas State University	1984 - 2006
Instructor	Texas State University	1979 - 1984
Instructor	Louisiana State University	1976 - 1979

## II. TEACHING

### B. Courses Taught:

Texas State University:

MATH 1300 - PRE-COLLEGE ALGEBRA

MATH 1311 - BASIC MATH

MATH 1315 - COLL ALGEBRA

MATH 1316 - SURVEY CONTEMP MATH

MATH 1317 - PL TRIGONOMETRY

MATH 1319 - MATH BA+ECO I

MATH 1319 - MATH BUS & ECO I  
MATH 1329 - MATH BUS & ECO II  
MATH 2301 - INFORMAL GEOM  
MATH 2311 - PRINC OF MATH I  
MATH 2311 - PRINCIPLES OF MATH  
MATH 2311 - PRINCIPLES OF MATH I  
MATH 2312 - INFORMAL GEOMETRY  
MATH 2321 - CALC LIFE SCI I  
MATH 2321 - MATH LIF SCI I  
MATH 2331 - CALC LIFE SCI II  
MATH 2331 - MATH LIF SCI 2  
MATH 2358 - DISCRETE MATH I  
MATH 2363 - ANALY GEOMETRY  
MATH 2417 - PRE-CALCULUS MATH  
MATH 3377 - LINEAR ALGEBRA  
MATH 4311 - INTRO HIST MATH  
MATH 5100 - SEMINAR BASIC MATH  
MATH 7324 - CURR DSGN & ANLYS  
MATH 7356B - ADV QUALITVE RSRCH  
MATH 7386 - INDPNT STDY MTH ED  
US 1100 - UNIVERSITY SEMINAR

C. Directed Student Learning (i.e. theses, dissertations, exit committees, etc.):

Member, Dissertation, Status: In Progress. (2016 - Present).

Student(s): Christina Koehne, Doctoral.

Member, Dissertation, Status: In Progress. (2016 - Present).

Student(s): Teresa Salazar, Doctoral.

Member, Dissertation, Status: In Progress. (2016 - Present).

Student(s): Xiaowen Cui, Doctoral.

Member, Dissertation, Status: In Progress. (2016 - Present). Mathematics Education.

Student(s): Zachariah Hurdle, Doctoral.

Member, Dissertation, Status: In Progress. (2016 - Present). Mathematics Education.

Student(s): Zhaochen Song, Doctoral.

Member, Dissertation, Status: In Progress. (2013 - Present). Mathematics Education.

Student(s): Sonalee Bhattacharyya, Doctoral.

Member, Dissertation, Status: Completed. (2016). Mathematics Education.

Student(s): Christina Starkey, Doctoral.

Member, Dissertation, Status: Completed. (2016). Mathematics Education.

Student(s): Nama Namakshi, Doctoral.

Member, Dissertation, Status: Completed. (2016). Mathematics Education.

Student(s): Rachel Bower, Doctoral.

## E. Teaching Grants and Contracts

### 2. Submitted, but not Funded, External Teaching Grants and Contracts:

Warshauer, Hiroko K (Co-Principal), Warshauer, Max L (Principal). Mathworks-Summer STEM Funding Hub, Summer STEM Funding Hub, Private / Foundation / Corporate, \$66,400.00. (Funded: June 2017 - August 2017). Grant.

Warshauer, Hiroko K (Co-Principal), Warshauer, Max L (Principal). Mathworks-Sid W. Richardson, Sid W. Richardson Foundation, Private / Foundation / Corporate, \$45,000.00. (Submitted: January 13, 2017, Funded: June 1, 2017 - August 1, 2017). Grant.

Warshauer, Hiroko K (Principal), Warshauer, Max L (Co-Principal). Mathworks-Meadows, Meadows Foundation, Private / Foundation / Corporate, \$100,000.00. (Submitted: January 3, 2017, Funded: June 1, 2017 - August 1, 2017). Grant.

## III. SCHOLARLY/CREATIVE

A. Works in Print (including works accepted, forthcoming, in press):

1. Books:

b. Textbooks:

Refereed:

Warshauer, M., White, A., McCabe, T., Warshauer, H. K. (2016). *Algebra*.  
Champaign: Stipes Publishing.

Warshauer, H. K., McCabe, T., Warshauer, M. (2016). *Math Explorations Part  
1*. Champaign: Stipes Publishing.

McCabe, T., Warshauer, H. K., Warshauer, M. (2016). *Math Explorations Part  
2*. Champaign: Stipes Publishing.

d. Chapters in Books:

Non-refereed:

Warshauer, M., McCabe, T., Sorto, M. A., Warshauer, H. K., Strickland, S.,  
White, A. (2010). The Peak in the Middle: Developing mathematically  
gifted students in the middle grades. In M. Saul, S. Assouline, & L. J.  
Sheffield (Eds.), *Equity* (pp. 155 – 170). Reston, VA: NCTM.

e. Creative Books:

Warshauer, M., Warshauer, H. K., McCabe, T. (2016). *Math Quest, Level 1* (pp.  
1-156). Champaign: Stipes Publishing.

Warshauer, H. K., Warshauer, M., McCabe, T. (2016). *Math Quest, Level 2* (pp.  
1-99). Champaign: Stipes Publishing.

McCabe, T., Warshauer, M., Warshauer, H. K. (2016). *Math Quest, Level 3* (pp.  
1-99). Champaign: Stipes Publishing.

McCabe, T., Warshauer, H. K., Warshauer, M., Bhattacharyya, S., Namakshi, N.,  
Starkey, C., Zunker, C. (2016). *Math Quest, Level 5* (pp. 1-93). Champaign:  
Stipes Publishing.

2. Articles:

a. Refereed Journal Articles:

Bhattacharyya, S., Namakshi, N., Zunker, C., Warshauer, H. K., Warshauer, M. (2016). Mystery Fractions. *Mathematics Teaching in the Middle School*, 22(1), 52-59.

Warshauer, H. K. (2015). Productive Struggle in Middle School Mathematics Classrooms. *Journal of Mathematics Teacher Education*, 18(4), 375-400. doi: 10.1007/s10857-014-9286-3

Warshauer, H. K. (2015). Strategies to Support Productive Struggle. *Mathematics Teaching in the Middle School*, 20(7), 390-393.

Sorto, M.A., McCabe, T., Warshauer, M., Warshauer, H. K. (2009). Understanding the value of a question: an analysis of a lesson. *Journal of Mathematical Sciences and Mathematics Education*, 4(1), 50-60.

### 3. Conference Proceedings:

#### a. Refereed Conference Proceedings:

Warshauer, H. K., Namakshi, N., Bhattacharyya, S., Zunker, C. (2016). Developing Preservice Teacher Noticing of Productive Struggle. In. Paper presented at Proceedings of the 38th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Tucson, AZ, November 2016. (pp. 917-920). Tucson, AZ: The University of Arizona.

Warshauer, H. K., Strickland, S., Namakshi, N., Hickman, L., Bhattacharyya, S. (2015). Development of Preservice Teacher Noticing in a Content Course. In. Paper presented at the 37th Conference of the North America Chapter of the Psychology of Mathematics Education, East Lansing:PME, November 2015. (pp. 972-975). East Lansing, MI: Michigan State University.

Starkey, C., Warshauer, H. K., Warshauer, M. (2015). Using Journals to Support Learning: Case of Number Theory and Proof. In. Paper presented at the 37th Conference of the North America Chapter of the Psychology of Mathematics Education, East Lansing:PME, November 2015. (pp. 1013). East Lansing, MI: Michigan State University.

Starkey, C., Warshauer, H. K., Warshauer, M. (2015). Using Journals to Support Student Learning: The Case of an Elementary Number Theory Course. In. Paper presented at the 18th Annual Conference on Research in Undergraduate Mathematics Education, Pittsburgh: RUME, February 2015.

Warshauer, H. K., Strickland, S., Hickman, L., Namakshi, N., Oesterle, S. (2014). Relating Preservice Teacher Noticing with Mathematical Knowledge for Teaching. In. Paper presented at the 38th Conference of the International Group

for the Psychology of Mathematics Education and the 36th Conference of the North America Chapter of the Psychology of Mathematics Education (Vol. 6), Vancouver, Canada:PME, July 2014. (pp. 262).

Warshauer, H. K. (2012). The Role of Productive Struggle in Teaching and Learning Middle School Mathematics. In. Paper presented at the 34th annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education, Kalamazoo: Western Michigan University, February 2012. (pp. 254-257). Kalamazoo, MI: Western Michigan University.

## 10. Other Works in Print:

### Cited Unpublished Dissertations:

Warshauer, H. K. (2014). The Role of Productive Struggle in Teaching and Learning Middle School Mathematics. *Principles to Actions: Ensuring Mathematical Success for All* (pp. 48). Reston, VA: National Council of Teachers of Mathematics (NCTM). <http://www.nctm.org/uploadedFiles/2014ResearchProgramBook.pdf>

### Other:

Warshauer, H. K., Warshauer, M., Grinstein, L., Lipsey, S. I. (2001). Algorithms. *Encyclopedia of Mathematics Education*. New York: RoutledgeFalmer.

Warshauer, H. K., Warshauer, M., Grinstein, L., Lipsey, S. I. (2001). Nature of Mathematics. *Encyclopedia of Mathematics Education*. New York: RoutledgeFalmer.

## B. Works Not in Print:

### 1. Papers Presented at Professional Meetings:

Warshauer, H. K. (Co-presenter), Herrera, C. (Co-presenter), Starkey, C. (Co-presenter), Smith, S. (Co-presenter), 21st Annual Conference of Association of Mathematics Teacher Educators, "Developing Preservice Teacher's Understanding of Productive Struggle," Association of Mathematics Teacher Educators (AMTE), Rosen Plaza Hotel, Orlando, FL, United States. (February 10, 2017).

Warshauer, H. K. (Co-presenter), Namakshi, N. (Co-presenter), Koehne, C. (Co-presenter), Bhattacharyya, S. (Co-presenter), 21st Annual Conference of Association of Mathematics Teacher Educators, "Focusing Preservice Teacher Noticing Towards Productive Struggle," Association of Mathematics Teacher Educators (AMTE), Rosen Plaza Hotel, Orlando, FL, United States. (February 9, 2017).

Warshauer, M. L. (Author), Warshauer, H. K. (Presenter), Starkey, C. (Presenter), McCabe, T. W. (Author), Zunker, C. (Presenter), 13th International Congress on Mathematical Education, "Addressing the Needs of Gifted Students: Opportunities for Students, Teachers, and Researchers," University of Hamburg, Hamburg, Germany. (July 2016).

Starkey, C. (Presenter), Warshauer, H. K. (Presenter), Warshauer, M. L. (Author), 13th International Congress on Mathematical Education, "Using Journals to Support Learning: Case of Number Theory and Proof," University of Hamburg, Hamburg, Germany. (July 2016).

Warshauer, H. K., Strickland, S., Namakshi, N., Bhattacharyya, S., Hickman, L., the Annual Association of Mathematics Teacher Educators (AMTE) Conference, "Using Student Work to Enhance Preservice Teachers' Noticing and Content Knowledge," Irvine, CA. (February 2016).

Warshauer, H. K., Strickland, S., Namakshi, N., Bhattacharyya, S., Hickman, L., the National Council of Teachers of Mathematics (NCTM) Research Conference, "Development of Preservice Teacher Noticing through Analysis of Student Work," Boston, MA. (April 2015).

Warshauer, H. K., Starkey, C., Warshauer, M., the Joint Mathematics Meetings (JMM) MAA Session The Scholarship of Teaching and Learning in Collegiate Mathematics, "Using Journals to Support Student Learning: The Case of an Elementary Number Theory Course," San Antonio, TX. (January 2015).

Warshauer, H. K., Strickland, S., Hickman, L., Namakshi, N., the 36th Conference of the North America Chapter of the Psychology of Mathematics Education (PME-NA), "Relating Preservice Teacher Noticing with Mathematical Knowledge for Teaching," Vancouver, Canada. (July 2014).

Warshauer, H. K., Strickland, S., Hickman, L., Namakshi, N., the 38th Conference of the International Group for the Psychology of Mathematics Education (PME), "Relating Preservice Teacher Noticing with Mathematical Knowledge for Teaching," Vancouver, Canada. (July 2014).

Warshauer, H. K., the 2014 National Conference of Teachers of Mathematics (NCTM) Research Conference, "Productive Struggle in Teaching and Learning Middle School Mathematic," New Orleans, LA. (April 2014).

## 2. Invited Talks, Lectures, and Presentations:

Warshauer, H. K. (Speaker), 7th Annual Mathematics Department Symposium and Recruitment Fair, "Teacher Noticing of Support Productive Struggle," Department of Mathematics at Texas State University, Texas State University, San Marcos, TX, United States. (November 18, 2016).

Warshauer, H. K. (presenter), Mathematics Education Seminar, "Developing Preservice Teacher's Understanding of Productive Struggle," Department of Mathematics at Texas State University, Derrick Hall 238, SAN MARCOS, TX, United States. (January 27, 2017).

Warshauer, H. K., Warshauer, M. L. (presenter), McCabe, T. W. (presenter), Joint Math Meetings, "University and Public School Partnerships: Camps, Curriculum, and Teacher Training," American Mathematical Society (AMS), Atlanta Marriott Marquis Hotel, Atlanta, GA, United States. (January 6, 2017).

Warshauer, H. K., the Texas State University Mathematics Education Seminar, "Integrating Teaching with Research: A Case of Math 2311." (September 2014).

Warshauer, H. K., Warshauer, M., McCabe, T., White, A., Strickland, S., the Mathematics Education Symposium, "Mathworks," San Marcos, TX. (September 2014).

Warshauer, H. K., the Program for Excellence in Teaching and Learning session, "Engaging in Problem Solving," Texas State University. (March 2014).

Warshauer, H. K., the Texas State University Mathematics Education Seminar, "Productive Struggle and its Role in Teaching and Learning Mathematics." (September 2013).

Warshauer, H. K., Warshauer, M., McCabe, T., McCabe, D., "Building International Relations," Jakarta State University, Jakarta, West Java, Indonesia. (January 2013).

Warshauer, H. K. (Presenter), Warshauer, M. L. (Presenter), McCabe, T. W. (Presenter), McCabe, D. A. (Presenter), "Productive Struggle in Teaching and Learning Mathematics," Bogor Agricultural University, Bogor, West Java, Indonesia. (January 2013).

Warshauer, H. K. (Presenter), Warshauer, M. L. (Presenter), McCabe, T. W. (Presenter), McCabe, D. A. (Presenter), "Research in Mathematics Education," Makassar State University, Makassar Sulawesi, Indonesia. (January 2013).

## 5. Other Works not in Print:

### b. Works "in progress":

#### Journal Articles:

Warshauer, H. K., Starkey, C., Warshauer, M. Using Journals to Support Student Learning: Case of an Elementary Number Theory Course.

Warshauer, H. K., Strickland, S., Namakshi, N., Bhattacharyya, S., Hickman, L. Relating preservice teacher noticing with Mathematics knowledge for



teaching. *Mathematics Teacher Educator*.

Other:

Warshauer, H. K., Starkey, C., Herrera, C., Smith, S., Nie, B. *ongoing research on PSTs development of Productive Struggle in Math 2311*.

Warshauer, H. K., Namakshi, N., Bhattacharyya, S., Zunker, C. *ongoing research on PSTs development of Productive Struggle in the Mathworks Junior Math Camp and a focus on Teacher Noticing in Professional Development*.

Work in Progress:

Warshauer, H. K., Starkey, C., Warshauer, M. *Using Journals to Support Student Learning: Case of an Elementary Number Theory Course*.

C. Scholarly / Creative Grants and Contracts:

1. Funded External Grants and Contracts:

Warshauer, Hiroko K (Co-Principal). Future Aerospace-engineers and Mathematicians Academy (FAMA), Other, \$412,000.00. (Funded: October 2015 - 2018). Grant.

Warshauer, Hiroko K (Co-Principal). Mathworks Fellows, Meadows Foundation, Private / Foundation / Corporate, \$153,000.00. (Submitted: 2015, Funded: 2015 - 2016). Grant.

Warshauer, Hiroko K (Co-Principal). Mathworks Algebra Project, Other, \$153,000.00. (Funded: 2014 - 2015). Grant.

Warshauer, Hiroko K (Principal). Mathworks Algebra Project, Other, \$36,000.00. (Funded: 2014 - 2015). Grant.

Warshauer, Hiroko K (Co-Principal). Mathworks Algebra Project, Other, \$36,000.00. (Funded: 2014 - 2015). Grant.

Warshauer, Hiroko K (Principal). Mathworks Algebra Project, Other, \$36,000.00. (Funded: 2013 - 2014). Grant.

Warshauer, Hiroko K (Co-Principal). Mathworks Algebra Project, Other, \$36,000.00. (Funded: 2013 - 2014). Grant.

Warshauer, Hiroko K (Co-Principal). Mathworks Algebra Project, Other, \$153,000.00. (Funded: 2013). Grant.

### 3. Funded Internal Grants and Contracts:

Warshauer, Hiroko K (Principal). Research Enhancement Program grant, Texas State University, \$8,000.00. (Funded: 2014). Grant.

## IV. SERVICE

### A. Institutional

#### 1. University:

Represented the Math Department, Bobcat College Days. (1979 - Present).

Math Dept. representative, Biology Liaison Committee. (2009 - 2015).

representing the Mathematics Department, University Common Experience steering committee. (2012 - 2013).

representing the Mathematics Department, University Common Experience steering committee. (2009 - 2010).

#### 3. Department/School:

Member, Committee on Committees. (2015 - Present).

mentor to graduate students: Supervise/Mentor Ph.D. students. (June 2014 - Present).

Member, Mathematics Student Affairs Committee to support student activities in the mathematics department e.g. assist in Graduate Open House, National Association of Mathematics (NAM) national conference, Pi Day on the Quad, Math Club, and Pi Mu Epsilon activities. (2014 - Present).

Moderator, Graduate Students Panel. (2014 - Present).

Supervise an Independent Study with Ph. D. student, Christina Starkey to develop the Methodology chapter of her dissertation and conduct research in an undergraduate Number Theory class. Co-author a paper submitted to PRIMUS. (2014 - Present).

Co-Chair, Math 2321 teaching forum to create General Education Assessments to be piloted across all the sections and to also facilitate discussion about teaching the course among the faculty. (2013 - Present).

Math in the Picture judge, Graduate Open House. (2013 - Present).

mentor to graduate students: Supervise/Mentor Ph.D. students, Christina Starkey, in teaching support for Math 2311 and related research projects. (2013 - Present).

mentor to graduate students: Supervise/Mentor Ph.D. students, Lauren Hickman, in teaching support for Math 2311 and related research projects. (2013 - Present).

mentor to graduate students: Supervise/Mentor Ph.D. students, Sonalee Bhattacharyya, in teaching support for Math 2311 and related research projects. (2013 - Present).

Member, Math Department Awards Committee that selects nominees for faculty and student awards. Assist in the Awards Day ceremony. (2006 - Present).

University Mentor, Matthew Straughn. (2015 - December 2016).

mentor to graduate students: Supervise/Mentor Ph.D. students, Nama Namakshi, in teaching support for Math 2311 and related research projects. (2013 - August 2016).

mentor to graduate students: Supervise/Mentor Ph.D. students, Christine Herrera, in teaching support for Math 2311 and related research projects. (2013 - May 2016).

mentor to graduate students: Supervise/Mentor Ph.D. students, Shawnda Smith, in teaching support for Math 2311 and related research projects. (2013 - May 2016).

Coordinator, Bing Speaker Series. (2015).

University Mentor, Sarah Ikonee. (2014 - 2015).

Chair, subcommittee of the Curriculum committee and revised the Math 2331 and 2321 courses to better serve the changing demographic of students. (2013 - 2014).

#### B. Professional:

Reviewer / Referee, National Council of Teachers of Mathematics (NCTM), Reston, VA. (2016 - Present).

Editor, Mathematics Teaching in the Middle School, Reston, VA, United States. (January 15, 2017 - January 15, 2020).

Team leader, Mathworks team of four middle school students at the Primary Math World Contest, an international mathematics competition, The team leaders select, revise, and prepare the contest questions. Developed international collaboration with other team leaders

at the PMWC, including Bogor, Indonesia, Hong Kong. (2001 - 2017).

Reviewer / Referee, International Congress for Mathematics Education (ICME13), Hamburg, Germany. (October 2015 - January 2016).

Reviewer / Referee, Journal of Mathematics Teacher Education (JMTE). (2015).

Reviewer / Referee, PMENA monograph on Teacher Noticing. (2015).

Session presider, 36th Conference of the North America Chapter of the Psychology of Mathematics Education (PME-NA), Vancouver. (July 2014).

Session presider, 38th Conference of the International Group for the Psychology of Mathematics Education (PME), Vancouver. (July 2014).

#### C. Community:

Organizer, activities with the Math Club including Pi-Day. (2001 - Present).

Organizer, the annual Math Awareness Month activities campus-wide by bringing speakers to Texas State (e.g. Mathematician, Tom Banchoff and mathematician and artist, John Sims). (2001 - Present).

submit the City Proclamation for a reading by the Mayor of San Marcos. (2001 - Present).

Host functions at my home including induction ceremony, Pi Mu Epsilon, SAN MARCOS, TX. (April 2016 - September 2016).

#### D. Organization Memberships:

Psychology of Mathematics Education North America Chapter (PME\_NA). (November 2012 - Present).

American Educational Research Association (AERA). (April 2010 - Present).

Association of Mathematics Teacher Educators (AMTE). (September 1998 - Present).

National Council of Teachers of Mathematics (NCTM). (September 1996 - Present).

Mathematics Association of America (MAA). (September 1990 - Present).

#### E. Service Honors and Awards:

Award / Honor Recipient: Presidential Distinction Award for Service in the College of Science and Engineering.

2016

Award / Honor Recipient: Mathematics Department Award for Excellence in Service.  
2015  
2002  
1996

Award / Honor Recipient: Mathematics Dept. and College of Science Award for Excellence in Teaching.  
2014

Award / Honor Recipient: Texas State Quarterly Team Award to 2012-2013 Common Experience Team (a team member).  
May 2013

Award / Honor Recipient: runner up Texas State Presidential Award for Excellence in Service- College of Science.  
2002

Award / Honor Recipient: First Annual Texas Higher Ed. Star Award, Closing the Gap, swtMathworks team.  
2001

Award / Honor Recipient: School of Science Award to the Math Institute for Talented Youth team.  
2000

#### F. Service Grants and Contracts:

##### 3. Funded Internal Service Grants and Contracts:

Warshauer, Hiroko K. University Lectures Series Award to support Sir Ken Robinson's talk for the Common Experience, \$4,500.00. (Funded: 2010).  
Grant.