

VITA

Lynne M. Pachnowski, Ph.D.
Professor, Education
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EDUCATION:

Ph.D. Education. May, 1994.

Boston College, Chestnut Hill, Massachusetts.
Major: Curriculum, Instruction, and Administration
Program: School Administration Certification

M.Ed. Education. September, 1989.

John Carroll University, Cleveland, Ohio.
Concentration: Secondary Mathematics

B.A. Mathematics Teaching, cum laude. August, 1986.

John Carroll University, Cleveland, OH

Associate Professor, Education

Harrington Distinguished Professor (Endowed Chair)

Assistant Professor, Education

Fall, 2005 – present

Fall, 1998 – 2005

2003-2005

Fall, 1993 - 1998

Dept. of Curricular and Instructional Studies, College of Education, University of Akron, Akron, OH

Primary Courses taught:

Instructional Methods in Mathematics (Adolescent/Young Adult)

Teaching Math to Middle Level Learners

Math Methods: Special Education

Instructional Technology Applications (discontinued in September, 2013)

Supervise math student-teachers in area high schools. Participate in collaborative endeavors with area high schools. Advise undergraduates, master's, and doctoral students. Sit on and/or chair doctoral dissertations. Serve on various department, college, and university committees. Complete work in outreach programs in Summit and Medina Counties.

During the endowed chair biennium, collected data from faculty regarding technology needs, collaborated with Technology Committee to offer in-service training, and will be sponsoring national speakers in the areas of education technology and teaching mathematics in urban areas.

Instructor

Summer, 1993. Fall, 1994 – Summer, 2000.

Upward Bound, SPSHS, Case Western Reserve University, Cleveland, OH

Teach high school-level Geometry, Algebra II, and Calculus courses in the program's summer program. Courses are designed to introduce material to students enrolled for the

following school year in those math courses in their respective high schools. Also, during the school year, occasionally teach a math proficiency test review course.

Substitute Teacher

February, 1993 - June, 1993

Various Cleveland-area Districts

Substitute-taught in various Cleveland-area districts including Orange, Solon, Nardon, Brecksville, Strongsville, and Westlake. Substituted primarily in math classrooms.

Collaborator, Co-Developer, and Team-Teacher

September, 1992 - December, 1992

TYP Program, Brandeis University, Waltham, MA

Co-taught the mathematics course for students in the TYP Program, a transition-year program for non-traditional students who wish to attend college. Designed curriculum, co-instructed classes, and researched related literature and curriculum. Co-presented a workshop for the math and science department at Roxbury Community College on innovative curriculum for the non-traditional student and current trends in math education.

Early Childhood Teacher

Assistant Teacher, In-

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Designed curriculum, lesson plans, and teacher handbook for a computer-based SAT/ACT review course. Piloted testing lessons. Also, trained new teachers joining the organization.

CERTIFICATION:

Ohio: Mathematics, 7-12, professional (8 year)
 Ohio: Computer Science, 7-12, professional (8 year)
 Ohio: Principal, 7-12 (4 year)
 Ohio: Supervisor/Director, provisional (4 year)
 Massachusetts Office for Children: Toddler/Pre-School

DISSERTATION:

An analysis of the attitudes of public and private parents and students of Yonkers, New York, regarding the Yonkers Public Schools' voluntary student transfer desegregation remedy.

Director: Ron Nuttall, M.P.H., Ph.D., Boston College School of Education

The Yonkers Public Schools are involved in a court-ordered desegregation plan which uses a balloting system and a district in which each school has a magnet interest to interracially mix students using mostly voluntary transfer. This study surveyed the attitudes of public and parochial parents and students of Yonkers using a questionnaire designed to measure attitudes based on four scales: attitudes toward desegregation, attitudes toward race relations, attitudes toward school, and attitudes toward magnet schools / choice. It was hypothesized that students educated under the desegregation plan for a greater portion of their schooling would have more favorable attitudes than those who stay in their neighborhood school. Furthermore, public parents and students were hypothesized to have better attitudes than parochial parents and students except with regard to school. As predicted, students were more favorable than parents with respect to race and school. Parents and students who volunteered to travel were more favorable to choice and race relations. No strong relationship existed between grade levels of students. Differences between public and parochial attitudes were as predicted. Some of the demographic-related results included findings that females are significantly more favorable to desegregation, race relations, and school than males and males were more likely to hold racial stereotypes. Also, Hispanics were strongly favorable to desegregation and Asian students were strongly more favorable to race relations (more than Black students). Furthermore, participants who reported having more friends of different races and/or more interracial neighborhood encounters showed more favorability to desegregation, race relations, and choice, supporting Allport's contact theory.

CHAPTERS IN BOOKS:

Pachnowski, L. M. (2000). Tools of the profession. In Thompson, S., Kusner, S., Pachnowski, L., and Salzman, J.

GRANT-RELATED PROJECTS: (Total funded: \$2,410,358 PI (Head writer): \$2,256,476)

- Saliga, L. M. and Pachnowski, L. M. Fractions, Functions, Ratios, Rates: The Path to Algebra Success. January, 2016. **\$63,397.**
- Saliga, L. M. and Pachnowski, L. M. Common Core Fractions: Modeling and Sense-Making. January 2015. **\$62,809.**
- Pachnowski, L. M., Makki, N., Holliday, G., Plaster, K. UA/Akron OSLN Hub Woodrow Wilson Initiative. October, 2014. **\$15,500.**
- Saliga, L. M. and Pachnowski, L. M. Common Core Fractions: Modeling and Sense-Making. January, 2014. **\$69,629.**
- Pachnowski, L. M., Makki, N., Holliday, G., Plaster, K. UA/Akron OSLN Hub Woodrow Wilson Initiative. October, 2013. **\$25,000.**
- Pachnowski, L. M., Stuart, D., Saliga, L. M., & Daviso, A. Able GED Math Initiative. Ohio Board of Regents Improving Teacher Quality. January, 2011. **\$63,262.**
- Woodrow Wilson Ohio Teaching Fellowship Grant. Woodrow Wilson Foundation/Ohio Board of Regents. March, 2010. **\$1,000,000.**
- Pachnowski, L.M., & Saliga, L.M. Making Mathematics Work! Ohio Board of Education Improving Teacher Quality, October, 2009, \$108,000. (Not funded.)
- Saliga, L. M. & Pachnowski, L. Making Mathematics Work! Ohio Department of Education Mathematics Initiatives. July, 2008. **\$201,819** FY09, **\$219,715** FY10.
- Pachnowski, L. Summer Honors Institute. Ohio Department of Education, December, 2008. **\$72,000.**
- Pachnowski, L. Essex School of Ohio. Ohio Department of Education, November, 2008. \$70,000. (Not funded.)
- Pachnowski, L. Summer Honors Institute. Ohio Department of Education, December, 2007. **\$72,000.**
- Pachnowski, L. Essex School of Ohio. Ohio Department of Education, November, 2007. \$70,000. (Not funded.)
- Quesada, A., Pachnowski, L. "Teacher Professional Development: Mathematics Topics Foundational Calculus" Ohio Department of Education, July, 2007. **\$16,470.**
- Pachnowski, L. Summer Honors Institute. Ohio Department of Education, January, 2007. **\$70,000.**
- Pachnowski, L. "Online HQT Math".. Ohio Department of Education. Spring, 2006. **\$10,000.**
- Pachnowski, L. "Summer Honor Institute Program," Ohio Department of Education. January, 2006, **\$70,000.**
- Quesada, A. and Pachnowski, L. "Math Topics Foundational to Calculus." Ohio Department of Education. June, 2005. **\$69,136.**
- Pachnowski, L. "Online Mathematics", Special Education Intervention Specialist: Meeting HQT Requirements, Ohio Department of Education April, 2005. **\$10,000.**
- Pachnowski, L., Saliga, L. "The Gems Project." Women's Educational Equity Act. April, 2005, \$212,000. (Not funded.)
- Pachnowski, L. "Summer Honors Institute," Ohio Department of Education Grant, June, 2004. **\$62,150.**
- Pachnowski, L., Duff, R.J., Quesada, A., Townsend, G. The Metamorphosis Program: Accelerated Preparation and Investigation of Retention of Math and Science Teachers. Submitted to NSF, October, 2001 and October, 2002. (Not funded.)
- Quesada, A., Pachnowski, L., Einsporn, R., Saliga, L. Ohio's Online Inquiry Math. Ohio Board of Regents Grant. January, 2002. **\$214,592.**
- Langlois, M., Pachnowski, L. M. "A Review of Mathematics and Science Education Courses at a Distance." Ohio Learning Network Grant, July, 2002, \$20,000. (Not funded.)
- Quesada, A., Zachariah, S., Pachnowski, L. Online Inquiry-Based Concepts of Geometry. Ohio Board of Regents Title II Teacher Quality Enhancement Grant. **\$21,776.**
- Einsporn, R., Pachnowski, L. Inquiry Stats Online. Ohio Board of Regents Grant Proposal. January, 2001. **\$9000.**

Pachnowski, L. M., Midha, C., Einsporn, R. Inquiry Statistics. Ohio Board of Regents Grant Proposal. May, 2000. **\$9000.**

Pachnowski, L. M. Project ViC (Video-Conferencing). Ohio Learning Network Grant Proposal. Submitted January, 2000. (Not funded.)

Pachnowski, L. M. Virtual Campus, Ohio Learning Network Grant, July, 1999 (Not funded.)

Owens, K., Wheland, E., Pachnowski, L., and McNatt, D. Project Numeracy. Eisenhower Grant Proposal, September, 1999. **\$46,500.**

Project Participant with Bennett, T. and Myers S. Internet 2. Submitted to NSF. Summer, 1998.

Consultant, Schoolnet "Raising the Bar" grant proposal. In collaboration with Barberton Schools. (Funded.) Summer, 1997.

Pachnowski, L.M. and Zachariah, S. Eisenhower grant proposal 7.02: Simple Solutions to Authentic Learning. Spring, 1997. (Not funded.)

Evaluation Director, CORE Math Program (a project of a Knight Foundation Grant), Summer, 1995 - present.

Evaluation Co-Director, STEM/CORE Math Program. Submitted to NSF, 1996. (Not funded.)

Technology Consultant, Apple Partners in Education, Fall, 1995. (Not funded.)

INTERNAL GRANT PROJECTS:

Pachnowski, L.M., Newman, C., Welton, E., Spickard-Prettyman, S., Varian, A., Harrington Team: Professional Development Schools. May, 2004. **\$6250.**

Pachnowski, L. M. "Mastery Learning in Secondary Mathematics," College of Education Research Grant, May, 2002. **\$910.**

PRESENTATIONS WITH REFERPa, A., 9 (ar)-6.3 (r)-6E277 -1.145 Td

Saliga, L. M., Pachnowski, L. M. "Building an Online Mathematical Community for

- Lane, C., Pachnowski, L. Saliga, L., Eienbraun, J. "Conway's Rational Tangles: A Math Teacher Circle Session," OCTM Annual Meeting, Akron, OH. October, 2018.
- Pachnowski, L. M., Plaster, K. "Informal K-12 Coding: The Why's and How's". NSF Includes Meeting. Akron, OH. March, 2017.
- Pachnowski, L. M., Plaster, K. "Why the emphasis on Coding? And what can schools and teacher preparation programs do to take advantage of the momentum?" OCTM Annual Meeting, Columbus, OH. October, 2017.

OTHER PROFESSIONAL PRESENTATIONS:

In-service on graphing calculators and spreadsheets in the classroom. Central Hower High School Math Department. December, 1996.
"Gender Equity in the Math Classroom", Project Discovery Summer Training, Kent State University - Stark Campus, July, 1995.
"Journal-Writing in the Math Classroom", Project Discovery Summer Training, Kent State University - Stark Campus, June, 1995.
Co-Presenter, Graphing Calculator Workshop for Teachers, Medina Career Center, April, 1994.
SAT Preparation Course Teacher Inservice, CompuQuest, Inc., San Francisco, CA, June14, 1993.

PROFESSIONAL CONSULTATION

Norton Public Schools, High School Math Department. Textbook Selection Process. September, 2008. November, 2008.
Norton Public Schools. March, 2008. April, 2008.

DEVELOPMENT OF CURRICULAR MATERIALS

Pachnowski, L. and Deloit Johnson, I. Ohio Resource Center. *catalyst*Ohio Resources Capstone Project. Integrating Calculators Into the K-12 Math Classroom. Summer, 2005-Spring, 2006.

DISTINCTIONS:

Member, University Review Committee for the Department of Developmental Studies, Spring, 1996.

Member, University Review Committee for the Department of Counseling and Special Education, Fall, 1996.

COLLEGE OF EDUCATION SERVICE/OFFICES HELD:

Chair, College Council, College of Education, 2017-20.

Faculty Advisor, Akron College of Education Students, 2017-present.

Faculty Advisor, University of Akron Council of Teachers of Mathematics (ZipsTeachMath), 2019-present.

Chair, College Council, College of Education, 2013-15.

Member, Graduate Curriculum Committee. U. of Akron, College of Education, 2010-2012.

Member, Technology Committee, U. of Akron, College of Education, 1993 – 2007..

Chair, Technology Committee, 1994 - 95, 1995 - 96 and 2005-06, 2006-07.

Member, Teacher Education Assembly, U. of Akron, College of Education, 1995-1997, 2000 – present.

Secretary, College Council, U. of Akron, College of Education, Fall, 1996 - 1999.

Member, Technology Director Search Committee, 1998.

Member, Teacher Education Evaluation Committee, U. of Akron, College of Education, 1995 - present.

Team Leader, "Professional Issues in Education" Course, U. of Akron, College of Education, 1995 - present.

Member, Math Educator Search Committee, U. of Akron, College of Education, Fall,

