

JONATHAN L. BRENDEFUR

Boise State University
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Curriculum Vita – 2008

EDUCATION

- Ph.D. Curriculum and Instruction; Mathematics Education.
University of Wisconsin, Madison, 1999.
Dissertation. *High School Mathematics Teachers' Beliefs about Learning, Pedagogy, and Mathematics and Their Relationship to Teaching Authentically*
Major Advisor: Dr. Walter G. Secada
- M.A.E. Education Administration Pacific Lutheran University, 1993.
B.A. Computer Science. Pacific Lutheran University, 1991.
B.A.E. Mathematics Education. Pacific Lutheran University, 1991.

PROFESSIONAL EXPERIENCE

- 2005-present** *Associate Professor.* Department of Curriculum, Instruction and Foundational Studies. Boise State University.
- 2007-2010** *Principal Investigator.* Mathematics, Science Partnership (MSP) Grant. Project title: Developing Mathematical Thinking II (DMT). Boise State University.
- 2007-2010** *Principal Investigator.* Micron Professional Development Grant. Boise State University.
- 2006-2009** *Co-Principal Investigator.* Mathematics, Science Partnership (MSP) Grant. Project title: Idaho (ISTEP). Idaho Council of Teachers of Mathematics (ICTM).
- 2005-2007** *Doctoral Program Coordinator.* Department of Curriculum, Instruction and Foundational Studies. Boise State University.
- 2004-2007** *Principal Investigator.* Mathematics, Science Partnership (MSP) Grant. Project title: Developing Mathematical Thinking (DMT). Boise State University.

- 2004-2007** *Principal Investigator.* Micron Research Grant. Boise State University.
- 2000-2005** *Assistant Professor.* Department of Curriculum, Instruction and Foundational Studies. Boise State University.
- 2002-2004** *Principal Investigator.* Instructional Learning Teams (ILT) Grant. Center for School Improvement and Policy Studies. Boise State University.
- 2001-2004** *Co-Principal Investigator and Director of Assessment Literacy.* Creating High Performance Schools (CHPS) Grant. Center for School Improvement. Boise State University.
- 1998-2000** *Research and Teaching Outreach Specialist.* Comprehensive Regional Assistance Center for Region VI (CC-VI). University of Wisconsin–Madison.
- 1998-2000** *Associate Lecturer.* Department of Curriculum and Instruction. University of Wisconsin–Madison.
- 1996-1998** *Research Assistant.* National Center for Improving Student Learning & Achievement in Mathematics and Science (NCISLA/Mathematics & Science). Wisconsin Center for Educational Research (WCER). University of Wisconsin–Madison.
- 1996-1998** *Research Assistant.* Center for Education and Work (CEW). The Development of Integrated, Authentic Curriculum Units for Mathematics and Education-for-Work (MathNet) and the National Center for Research in Vocational Education (NCRVE). University of Wisconsin–Madison.
- 1994-1996** *Research Assistant. Mathematics in context: A connected curriculum for grades 5-8. (MiC).* National Center for Research in Mathematical Sciences Education (NCRMSE). Wisconsin Center for Educational Research (WCER) University of Wisconsin–Madison.
- 1991-1994** *Mathematics Teacher.* Bethel School District, Tacoma WA.
- 1992-1994** *Lead Teacher.* Bethel School District, Tacoma WA. C
- 1991** Washington State Continuing Teacher Certification. Endorsements: Mathematics (4-12); Computer Science (4-12)

GRANTS

Proposals Submitted

Johnstone, C., Brendefur, J. L. (July 2007 – June 2010). *Science, Technology, Education, and Mathematics (STEM) Grant*. Program Officer:

Proposed: \$350,000

Proposals Awarded

Brendefur, J. L. (July 2007 – June 2010). Principal Investigator for the *Mathematics and Science Partnership Grant*. Title: Developing Teachers' Mathematical Thinking. Awarded by the Idaho Department of Education. Program Officer: Cindy Johnstone. **Award: \$841,002**

Brendefur, J. L. (July 2007 – June 2010). Principal Investigators for the *Developing Mathematical Thinking in an Elementary School*. Awarded by the Micron Technology Foundation. Program Officer: Kami Faylor **Award: \$135,000**

Firman, R., Brendefur, J.L. (June 2006 – July 2009). Improving Middle School Mathematics Teaching. *Mathematics and Science Partnership Grant*. Idaho Dept. of Education. Program Officer: Pat White. **Award: \$341,128**

Brendefur, J. L. (February 2004 – July 2007). Principal Investigator for the *Mathematics and Science Partnership Grant*. Title: Improving elementary mathematics teaching through professional development. Awarded by the Idaho Department of Education. Program Officer: Pat White. **Award: \$411,224**

Brendefur, J. L. (May 2004 – June 2007). Principal Investigators for the *Improving elementary mathematics teaching through professional development*. Grant awarded by the Micron Technology Foundation and administered through the Lee Pesky Learning Center. Program Officer: Kami Faylor **Award: \$141,819**

Brendefur, J. L., Stewart R., & Parrett, W. (September 2002 – December 2003). Principal Investigators for the *Instructional Learning Teams Grant*. Awarded by the J.A. and Kathryn Albertson Foundation. Program Officer: Wayne Rush. **Award: \$499,606**

Parrett, W., Brendefur, J. L., Stewart R., & Willison, S. (August 1, 2002 – July 30, 2003). Principal Investigators for the *Creating High Performance Schools Grant*. Awarded by the J.A. and Kathryn Albertson Foundation. Program Officer: Sharon Jarvis. **Award: \$640,009**

Parrett, W., Stewart R., Willison, S., & Brendefur, J. L., (August 1, 2001 – July 30, 2002). Principal Investigators for the *Creating High Performance Schools Grant*. Awarded by the J.A. and Kathryn Albertson Foundation. Program Officer: Sharon Jarvis. **Award: \$513,965**

Brendefur, J. L. (October 1, 2002 – September 30, 2003). Principal Investigator for the *Success of CCVI's Cognitively Guided Instruction Professional Development Program*. Awarded by the Comprehensive Regional Assistance Center Consortium Region VI. University of Wisconsin, Madison. Program Officer: Audrey Cotherman. **Award: \$7,245**

Brendefur, J. L. (October 1, 2001 – September 30, 2002). Principal Investigator for the *Promoting Professional Development through Cognitively Guided Instruction*. Awarded by the Comprehensive Regional Assistance Center Consortium Region VI. University of Wisconsin, Madison. Contact: Audrey Cotherman. **Award: \$14,000**

Brendefur, J. L. (Fall 2002). *Mathematical Discourse*. Awarded a research associatship from the College of Education Research Associatship Committee through the Office of Research Administration. Boise State University. Contact: Larry Irvin. Course release. **Award: \$5,000**

- Brendefur, J. L.** (Spring 2001). *Children's Thinking*. Awarded a research associatship from the College of Education Research Associatship Committee through the Office of Research Administration. Boise State University. Contact: Larry Irvin. Course release. **Award: \$5,000**
- Brendefur, J. L.** (October 1, 2000 – September 30, 2001). Principal Investigator for the *Promoting Professional Development though Cognitively Guided Instruction*. Awarded by the Comprehensive Regional Assistance Center Consortium Region VI. University of Wisconsin, Madison. Contact: Walter Secada. **Award: \$25,000**

PUBLICATIONS

- Brendefur, J.L.** (In Press). Connecting elementary teachers' mathematical knowledge to their instructional practices. *The Researcher*.
- Pittman, M., Koellner, K., & **Brendefur, J.L.** (2008). *Analyzing teacher content knowledge of probability: The maze problem*. In (Ed.), *Proceedings of the twenty-ninth annual meeting of the North American Chapter of the International Group for the Psychology of Mathematics Education* (Vol. x, x). Columbus OH: ERIC Clearinghouse.
- Brendefur, J. L.,** & Morales-Brendefur, F. M. (2008). Teaching to develop mathematical thinkers. In M.M. LaRocque & S.M. Darling (Eds.), *Blended curriculum in the inclusive K-3 Classroom: Effective methods for teaching all your children*. Allyn & Bacon.
- Stewart, R. A., & **Brendefur, J. L.** (September 2005). Lesson Study and Authentic Achievement: A Model for Teacher Collaboration. *Edge*. V1. n1.
- Stewart, R.A., & **Brendefur, J. L.** (May 2005). Fusing lesson study and authentic achievement: A model for teacher collaboration. *Phi Delta Kappan*, 681-687.
- Brendefur, J. L.,** & Gregory, A. (2004). Authentic pedagogy and the novice teacher: Acculturating teachers into a reflective practice. In A. Lazaridou (Ed.), *Contemporary Issues on Educational Administration and Policy* (pp. 75-92). Athens, Greece: ATINER.
- Brendefur, J. L.** & Knuth, E. (2004). Elementary students' use of conjectures to deepen understanding. In (Ed.), *Proceedings of the twenty-eighth annual meeting of the International Group for the Psychology of Mathematics Education* (Vol. 1, 292). Columbus OH: ERIC Clearinghouse.
- Hernández-Gantes, V. M., & **Brendefur, J. L.** (2003). Developing authentic, integrated, standards-based mathematics curriculum: [More than just] an interdisciplinary collaborative approach. *Journal of Vocational Education Research*, 28(3), 261-285.
- Gregory, A.E., & **Brendefur, J.L.,** (2003). Changing the culture of teaching. *ENC Focus: A Magazine for Classroom Innovators*.
- Brendefur, J. L.,** & Frykholm, J. A. (2000). Promoting mathematical communication in the classroom: Two pre-service teachers' conceptions and practices. *Journal of Mathematics in Teacher Education*, 3(2): 125-153. Kluwer Academic Publishers.
- Brendefur, J. L.,** & Pitingoro, R. (1998). Dividing fractions with the ratio table. *Teaching and Learning Algorithms in School Mathematics*, 1998 NCTM Yearbook. Reston, VA: National Council of Teachers of Mathematics.
- Brendefur, J. L.,** & Pitingoro, R. (1993). Spliced up life—Fraction fun. *Mathematics Teacher*, 86(6).

Curriculum Publications

- Abels, M., de Lange, J., **Brendefur, J.,** & Halevi, T. (1998). Going the Distance. In National Center for Research in Mathematical Sciences Education & Freudenthal Institute (Eds.), *Mathematics in Context*. Chicago: Encyclopaedia Britannica Educational Corporation.
- Abels, M., Gravemeijer, K., **Brendefur, J.,** Cole, B., Meyer, M., & Pligge, M. (1998). Cereal Numbers.

- In National Center for Research in Mathematical Sciences Education & Freudenthal Institute (Eds.), *Mathematics in Context*. Chicago: Encyclopaedia Britannica Educational Corporation.
- Feijs, E., Lange, J., van Reeuwijk, M. **Brendefur**, J. L., & Spence, M. S. (1998). Looking at an Angle. In National Center for Research in Mathematical Sciences Education & Freudenthal Institute (Eds.), *Mathematics in Context*. Chicago: Encyclopaedia Britannica Educational Corporation.
- Heuvel-Panhuizen, M., Streefland, L., **Brendefur**, J. L., Brinker, L., Meyer, M., & Middleton, J. A. (1997). Some of the Parts. In National Center for Research in Mathematical Sciences Education & Freudenthal Institute (Eds.), *Mathematics in Context*. Chicago: Encyclopaedia Britannica Educational Corporation.
- Keijzer, R., van den Heuvel-Panhuizen, M., Wijers, M., **Brendefur**, J. L., Shew, J., Brinker, L. J., Pligge, M. A., & Shafer, M. C. (1998). More or Less. In National Center for Research in Mathematical Sciences Education & Freudenthal Institute (Eds.), *Mathematics in Context*. Chicago: Encyclopaedia Britannica Educational Corporation.
- Keijzer, R., van Galen, F., **Brendefur**, J. L., Cole, B., & Shew, J. A. (1998). Fraction Times. In National Center for Research in Mathematical Sciences Education & Freudenthal Institute (Eds.), *Mathematics in Context*. Chicago: Encyclopaedia Britannica Educational Corporation..

Non-Refereed Publications

- Brendefur, J. L. (2007). *Algebra Math Academy Report*. Boise, ID: Boise State University
- Brendefur, J.L. (2007). *Developing Mathematical Thinking: Final Technical Report*. Center for School Improvement and Policy Studies. Boise, ID: Boise State University.
- Brendefur, J.L., Franklin, C., Gregory, A., Parrett, W., & Thiede, K. (2006). *Doctoral Program Status Report: A place of vision, 10 years of success*. Department of CIFS. Boise, ID: Boise State University.
- Brendefur, J.L. (2006). *Developing Mathematical Thinking: Year 2 Technical Report*. Center for School Improvement and Policy Studies. Boise, ID: Boise State University.
- Brendefur, J.L. (2005). *Developing Mathematical Thinking: Year 1 Technical Report*. Center for School Improvement and Policy Studies. Boise, ID: Boise State University.
- Brendefur, J.L. et al. (2004). *Instruction and collaboration. Series 3*. The Creating High Performance Schools Initiative. J.A. and Kathryn Albertson Foundation. Boise, Idaho. Contributing author.
- Brendefur, J.L. et. al. (2004). *Assessment Literacy. Series 4*. The Creating High Performance Schools Initiative. J.A. and Kathryn Albertson Foundation. Boise, Idaho. Contributing author.
- Brendefur, J.L. (2003). *Promoting professional development in mathematics through Cognitively Guided Instruction: Technical report*. Comprehensive Center, Region VI. Madison, Wisconsin: University of Wisconsin, Madison.
- Brendefur, J.L. (2000). *CGI in Dearborn, MI*. Comprehensive Center, Region VI. Madison, Wisconsin: University of Wisconsin, Madison.
- Brendefur, J.L. (1999). *High School Mathematics Teachers' Beliefs about Learning, Pedagogy, and Mathematics and Their Relationship to Teaching Authentically*. Unpublished dissertation, Madison, WI: University of Wisconsin, Madison.
- Brendefur, J., Hernandez-Gantes, V., & Webb, N. (Fall 1998). *MathNet Evaluation Report: Integrating mathematics and education-and-work a national network for improving teaching, curriculum, and learning*. Washington, DC: Office of Vocational and Adult Education (OVAE), U.S. Department of Education. Award Number V248B50078.
- Hernandez-Gantes, V., Burrill, J., & Brendefur, J. L. (1998). *Integrating mathematics in occupational contexts: A sampler of curricular units*. Madison, WI: Center on Education and Work.
- Hernandez-Gantes, V., Brendefur, J. L., & Burrill, J. (1998). *Integrating mathematics in an occupational context: A guide for developing curriculum units*. Madison, WI: Center on Education and Work.

Publications in Process

- Koellner, K., Pittman, M., & **Brendefur**, J. L. (in review). Expect the unexpected when teaching probability. *Teaching Mathematics in the Middle School*.
- Brendefur**, J. L., Bunning, K.A. & Secada, W. G. (in review). Using solution strategies to examine and promote high-school students' understanding of functions. *Journal of Mathematics Teacher Education*, 1-37.
- Brendefur**, J. L. Bunning, K.A., & Pittman, M. (in review). *Improving elementary mathematics teaching by developing mathematical thinking*. *Journal for Research in Mathematics Education*.
- Brendefur**, J. L. & Pittman, M. (in review). Framing professional development that promotes mathematical thinking. *AMTE Monograph Series*, the Association of Mathematics Teacher Educators.
- Brendefur**, J. L. (in process). Unlocking the sash of a small window into students' understanding of functions. *International Journal for Mathematics Teaching and Learning*.
- Brendefur**, J. L. (in process). Understanding high-school mathematics teachers' beliefs in relation to intellectual quality. *Journal for Research in Mathematics Education*.
- Brendefur**, J. L., & Stewart, R. Pfiester, J. Whitney, B., & Zarbinisky, J. (in process). *A step-by-step guide to improving instruction and increasing achievement: Instructional learning teams*.
- Secada, W. G., & **Brendefur**, J. L. (in process). *Professional development and ecosystemic reform*.

Newsletters

- Brendefur, J.L. (2007). Math Success. Center for Developing Mathematical Thinking. 1(1).
- Brendefur, J.L. (2006). Developing Mathematical Thinking Project. *BSU Newsletter*. College of Education. Boise State University, Boise, ID.
- Brendefur, J., Morales, F., & Saad, S., (Spring 2002). A question for research: Mathematics and improved reading. *Reading*. Comprehensive Center—Region VI. University of Wisconsin, Madison: Madison, WI. 7(1).
- Brendefur, J., & Foster, S. (Fall 2000). Fargo, North Dakota: A story of teacher change. *Cognitively Guided Instruction and Systematic Reform*. Comprehensive Center—Region VI. University of Wisconsin, Madison: Madison, WI. p. 16-19.
- Brendefur, J., & Foster, S. (Fall 2000). Dearborn, Michigan: A system changes. *Cognitively Guided Instruction and Systematic Reform*. Comprehensive Center—Region VI. University of Wisconsin, Madison: Madison, WI. p. 20-23
- Secada, W. G., & Brendefur, J. L. (Fall 2000). CGI student achievement in Region VI evaluation findings. *Cognitively Guided Instruction and Systematic Reform*. Comprehensive Center—Region VI. University of Wisconsin, Madison: Madison, WI. p. 16-19.
- Brendefur, J. L. (March, 1997). Developing assessments for authentic integrated curriculum units. *MathNet News*, 1(2). Madison, WI: Center on Education and Work.
- Brendefur, J. L. (November, 1996). Creating and revising authentic curriculum units. *MathNet News*, 1(1). Madison, WI: Center on Education and Work.

CONFERENCE PAPERS

International Conferences

- Brendefur, J. L. & Pfiester, J. Stewart, R. A., Whitney, B., & Zarbinisky, J. (2007). *Instructional Learning Teams: Combining the power of the Japanese lesson study with intellectual quality*. Paper presented at the 9th International Conference on Education, Athens, Greece.
- Brendefur, J. L. & Knuth, E. (2004). *Elementary students' use of conjectures to deepen understanding*. Paper presented at the Psychology of Mathematics Education, Bergen, Norway.
- Brendefur, J. L. & Gregory, A. (2004). *Authentic pedagogy and the novice teacher: Acculturating*

- teachers into a reflective practice*. Paper presented at the 6th International Conference on Education, Athens, Greece.
- Secada, W. G., & Brendefur, J. L. (2000). *Towards a strategy-driven approach to examining students' understanding of function*. Paper presented at v reunion de didactica matematica del cono sur, Santiago de Chili. (Invited Address).

National Conferences

- Brendefur, J. L. (2007). *Developing mathematical thinking in Native American students*. Paper presented at the Indian Education Summit. September 19-21. Rapid City, SD.
- Brendefur, J. L. (2007). *Changing teachers' instructional practices to increase student achievement*. Paper presented at the Teaching Indians Education Think Tank: Hill City, SD.
- Brendefur, J. L. & Pittman, M. (2007). *Changing teachers' instructional practices to increase student achievement*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Brendefur, J. L. (2006). *Changing teachers' instructional practices*. Paper presented at the annual meeting of the American Educational Research Association, San Francisco, CA.
- Brendefur, J. L., Stewart, R., & Parrett, W. (2005). *Using lesson study and principles of intellectual quality to change teaching*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Brendefur, J. L., Reggear, C., & Vandervelden, M. (2005). *Improving elementary mathematics teaching through professional development focused on developing mathematical thinking*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Brendefur, J. L., Blanton, M., & Henning, C. (2005). *Mathematical discourse*. Paper presented at the 9th Annual Conference for the Association of Mathematics Teacher Educators, Dallas, TX.
- Brendefur, J. L. (2004). *Experiencing equity in mathematics education*. Paper presented at the Annual Meeting of the National Association for Bilingual Education, Albuquerque, NM.
- Brendefur, J. L. (2002). *Using solution strategies to examine and promote students' understanding of functions*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Secada, W. G., & Brendefur, J. L. (2001). *Professional development and ecosystemic reform*. Paper presented at the annual meeting of the American Educational Research Association, Seattle, WA.
- Brendefur, J. L., Secada, W. G., and Gomez, C. (2001). *Positive change within the ecosystem: Student achievement results*. Paper presented at the annual meeting of the American Educational Research Association, Seattle, WA.
- Brendefur, J. L., Secada, W. G., & Behrend, J. (2001). *The introduction of a hardy species*. Paper presented at the annual meeting of the American Educational Research Association, Seattle, WA.
- Brendefur, J. L., & Secada, W. G. (2001). *Creating niches and propogating the reform*. Paper presented at the annual meeting of the American Educational Research Association, Seattle, WA.
- Brendefur, J. L. (2000). *An analysis of bilingual high school students' understanding of different representations for linear rate of change*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Secada, W. G., & Brendefur, J. L. (2000). *A theoretical framing of students' understanding of linear rate of change*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Rousseau, C., & Brendefur, J. L. (2000). *Monolingual low-track students' linear rate of change problem solving strategies*. Paper presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Brendefur, J. L. (2000). *Student thinking: An inroad into promoting mathematical literate children*. Paper presented at the annual National Title I Conference, San Antonia. (Invited address).
- Brendefur, J. L. (1999). *The inter-relationships among mathematics teachers' knowledge and beliefs, classroom environment, and student experience that promote student understanding in algebra:*

- Methodological overview*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Rouseau, C., & Brendefur, J. L. (1999). *Student identity as related to their teachers' beliefs about equity and the learning of mathematics*. Paper presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Berman, P. W., & Brendefur, J. L. (1998). *Functions: A focus on student understanding*. Paper presented at the annual meeting of the American Educational Research Association, San Diego.
- Brendefur, J. L., & Hernandez-Gantes, V. (1997). *A framework for creating authentic and integrated mathematics and vocational education curricula*. Paper presented at the annual conference of vocational and technical education. Beaver Creek, CO.
- Frykholm, J. A., & Brendefur, J. L. (1997). *Promoting mathematical communication in the classroom: Two pre-service teachers' conceptions and practices*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.
- Hernandez-Gantes, V., & Brendefur, J. L. (1997). *Producing authentic, standards-based mathematics curriculum: A collaborative approach*. Paper presented at the annual meeting of the American Educational Research Association, Chicago.

Regional Conferences

- Brendefur, J. L. (2007). *Developing Mathematical Thinking*. Keynote presented at the Annual Meeting of the Idaho Council of Teachers of Mathematics, Nampa, ID.
- Brendefur, J. L. (2007). *The Big Ideas of Algebra*. Keynote presented at the Math Academy, Pocatello, ID.
- Brendefur, J. L. (2007). *The Connections between SIOP and Developing Mathematical Thinking*. Paper presented at the Annual Meeting of the Idaho Association of Bilingual Education, Twin Falls, ID.
- Brendefur, J. L. (2006). *Changing teachers' instructional practices and increasing student achievement in number, measurement and geometry by developing mathematical thinking*. Paper presented at the Annual Meeting of the Northern Rocky Mountain Educational Research Association, Sun Valley, ID.
- Brendefur, J. L. & Gregory, A. (2003). *Examining one's practice: The perspectives of novice practitioners of authentic practice*. Paper presented at the Annual Meeting of the Northern Rocky Mountain Educational Research Association, Jackson Hole, WY.
- Brendefur, J. L. (2003). *Alluring teachers to change practice: Intellectual quality, lesson study, and instructional learning teams*. Paper presented at the Annual Meeting of the Northern Rocky Mountain Educational Research Association, Jackson Hole, WY.
- Hutchinson, J., Brendefur, J. L., Gregory, A., Benson, K., & Stewart, R. (2003). *The power of professional learning communities*. Paper presented at the Annual Meeting of the Northern Rocky Mountain Educational Research Association, Jackson Hole, WY.
- Gregory, A., Isbell, G., Brendefur, J. L., & Stewart, R. (2003). *Changing instruction through lenses and video*. Paper presented at the Annual Meeting of the Northern Rocky Mountain Educational Research Association, Jackson Hole, WY.
- Brendefur, J. L., Gregory, A., & Stewart, R. (2003). *Lessons learned through Instructional Learning Teams*. Paper presented at the Annual Meeting of the Northern Rocky Mountain Educational Research Association, Jackson Hole, WY.

TEACHING

Courses Taught

2000-Present. Boise State University

Course	Level
Elementary Mathematics Methods	Undergraduate
Professional Year/Liaison	Undergraduate
Elementary Child Observation and Tutoring	Undergraduate
Field Experience for Child Observation	Undergraduate
Curriculum Planning and Implementation	Graduate
Educational Research	Graduate
Instructional Theory	Graduate
Philosophy of Education	Graduate
Special Topics: Assessment Literacy; Instructional Learning Teams; Developing Mathematical Thinking; CGI; Teaching for Understanding; Children's Mathematical Literature	Graduate
Directed Research/Independent Study	Graduate
Mathematical Discourse	Doctoral
Program Evaluation	Doctoral
Research Perspectives	Doctoral
Learning & Cognition	Doctoral

In every category, over 90% of the respondents rated my teaching, knowledge of the discipline, and the course material as excellent or very good.

Graduate Students

Doctoral Dissertation Committees

Beals, Cathy, In progress (Committee chair)
Dockstader, Jolene, In progress (Committee member)
Flachbart, Marybeth, In progress (Committee member)
Hartman-Hallam, Darlene, In progress (Committee member)
Healy, Margo, In progress (Committee member)
Jang, Bonsoek, In progress (Committee member)
Kinnaman, Lisa, In progress (Committee member)
Lewis, Mark, In progress (Committee chair)
Pfiester, Josh, In progress (Committee chair)
Whitney, Brian, In progress (Committee chair)
Whitten, Doug, In progress (Committee chair)
Zarbinisky, Julia (Committee member)
Snelson, Chareen (2003) *Use of representation in content designed for online mathematics instruction*, (Committee member)
Haunold, Jill (2002) *From being on time to being in time* (Committee member)

Master's Thesis Committees

Jonathan L. Brendefur, Curriculum Vita

Ishmail, Jackie, In progress (Committee chair)
Strother, Sam, In progress (Committee chair)
Fox, Brie, In progress (Committee chair)
Reggear, Christina (2005), (Committee chair)
Wilson, Sarah (2005), (Committee member)

Comprehensive Examination Committees

Barclay, Roanna (2006), (Committee chair)

INSERVICES

Longitudinal Inservices

1998-Present Fargo Public School District, Fargo, ND
1998-2002 Dearborn Public School District, Dearborn, MI
1998-2000 Lansing Public School District, Lansing, MI
1998-2000 Bismarck Public School District, Bismarck, ND

- Conducted annual week-long training in *Cognitively Guided Instruction (CGI)*
- Conducted continuous follow-up training
- Collected student achievement data and teacher professional development data
- Engaged in research and scholarship

1998-2000 Research and inservice: Memorial High School, Madison, WI
Pedagogical changes through focused examination of students' understanding of algebra

- Engaged in research and scholarship
- Collected student achievement data and teacher pedagogical data

1997-1999 Research and inservice: South Division High School, Milwaukee, WI
Students' understanding of linear rate of change and teacher practices

- Engaged in research and scholarship
- Collected student achievement data and teacher pedagogical data

Workshops, Institutes and Events

2008

- *Block Conference: University of Idaho, Boise, ID, January 28. (Presented).*

2007

- STEM Presentation. University of Idaho. Moscow, ID. December 3. (Presented).
- Math Initiative meeting. Idaho Department of Education, Boise, ID, May 25. (Presented).
- TIE Rapid City, SD, May 23-24. (Presented).
- NCTM Annual Conference, March 19 – 23.
- *Mathematics Science Partnership Directors' Meeting.* Idaho Department of Education, Boise, ID,

May 21. (Presented).

- *House Education Committee Meeting – Special Presentation*. House Education Committee, Boise, ID, March 1. (Presented).
- *Block Conference: University of Idaho*, Boise, ID, February 7. (Presented).
- *Developing Mathematical Thinking Institute – Number*. Center for School Improvement, BSU, Boise ID. (Organized and presented).
- *Advanced Cognitively Guided Instruction*. Kindergarten Center, Fargo, ND. June 1 – 4. (Presented).
- *Teaching Mathematically, Spalding Elementary School Inservice*. Boise, ID, January 19. (Presented).

2006

- *Kindergarten Conference: Association of Supervision and Curriculum Development*, Boise, ID, October 5. (Presented).
- *Developing Mathematical Thinking Institute – Probability & Data Analysis*. Center for School Improvement, BSU, Boise ID. July 31 – August 4. (Organized and presented).
- *Blocks Conference, University of Idaho*. Boise, ID, February 21. (Presented).
- *Advanced Cognitively Guided Instruction*. Kindergarten Center, Fargo, ND. May 30– June 2. (Presented).
- *Teaching Mathematically, Adams Elementary School Inservice*. Boise, ID, October 6. (Presented).

2005

- *Kindergarten Conference: Association of Supervision and Curriculum Development*, Boise, ID, October 6. (Presented).
- *Cognitively Guided Instruction*. ASCD Kindergarten Conference, Boise, ID. October 6. (Presented).
- *Developing Mathematical Thinking Institute – Measurement & Geometry*. Center for School Improvement, BSU, Boise ID. August 1-5. (Organized and presented).
- *The Creation of the Developing Mathematical Thinking Project*. The Northwest Mathematics, Science Partnership Conference. Reno, NV. April 9. (Presented).
- *Advanced Cognitively Guided Instruction*. Kindergarten Center, Fargo, ND. May 31– June 3. (Presented).

2004

- *Developing elementary teachers' mathematical knowledge*. Third Biennial Cognitively Guided Instruction National Conference, St. Louis, MO. October 15-16. (Presented).
- *Opening students' mathematical minds through children's literature*. 12th Annual Conference of the Idaho Association of Bilingual Education, Ontario, OR. October 8. (Presented).
- *Developing Mathematical Thinking Institute – Number*. Center for School Improvement, BSU, Boise ID. August 2-6. (Organized and presented).
- *Conjectures as a Way to Assess Students' Mathematical Understanding*. Assessment Training Institute. Portland, OR. July 12–14. (Presented).
- *Opening Student's Mathematical Minds Through Children's Literature*. Institute for Effective Teaching & Learning (IETL), BSU, Boise, ID. July 9–10. (Presented).
- *Introducing mathematical conjectures to elementary students*. Bridges to Learning. Lee Pesky Learning Center. Coeur d'Alene, ID. June 29–July 1. (Presented).
- *CHPS 2004 Summer Conference*. Center for School Improvement, BSU, Boise ID. June 14–16. (Organized and presented).
- *Advanced Cognitively Guided Instruction*. Kindergarten Center, Fargo, ND. June 1–5. (Presented).

2003

- *Introduction into CGI*. Boise School District Inservice Days, Boise, ID. October 3. (Presented).
- *Equity in mathematics education for bilingual students*. 11th Annual Conference of the Idaho

- Association of Bilingual Education, Twin Falls, ID. October 2. (Presented).
- *Developing Students' Mathematical Ideas*. Caldwell School District, Caldwell, ID. August 11–12. (Presented).
- *Advanced Cognitively Guided Instruction*. Dearborn Public Schools, Dearborn MI. August 4–8. (Presented).
- *Conjectures as a Way to Assess Students' Mathematical Understanding*. Assessment Training Institute. Portland, OR. July 14–16. (Organized and presented).
- *Scoring Work Samples: Professional Development Schools Workshop*. BSU, Boise, ID. June 19. (Presented).
- *Deepening Students' Understanding of Mathematics by Focusing on Student Thinking*. Council School District. Council, ID. June 6–7. (Presented).
- *Advanced Cognitively Guided Instruction*. Kindergarten Center, Fargo, ND. June 1–5. (Presented).
- *LessonLab and Instructional Learning Teams*. Center for School Improvement, Boise State University, Boise, ID. May 12. (Organized).
- *Leadership for Excellence in Assessment*. Centre on the Grove. Center for School Improvement, Boise State University, Boise, ID. February 20-21. (Organized).
- *Teaching Children Mathematics*. Children's School, Boise, ID. February 21, 28, March 7, 21 April 8, 29. (Presented).
- *Mathematics Professional Development*. ANSER Charter School, Boise, ID. February 14, March 14, April 14. (Presented).
- *Instructional Learning Teams: Combining Intellectual Quality and Lesson Study*. Centre on the Grove. Albertson Foundation, Boise, ID. February 6 & 7. (Organized and presented).
- *Spring Leadership Cadre' Training: Assessment Literacy*. Centre on the Grove. Center for School Improvement, Boise State University, Boise, ID. January 30. (Organized).
- *Leadership for Excellence in Assessment*. Centre on the Grove. Center for School Improvement, Boise State University, Boise, ID. January 22-23. (Organized).

2002

- *ILT Elementary Mathematics Sessions*. Centre on the Grove. Center for School Improvement, BSU, Boise, ID. December 11–12. (Organized and presented).
- *Interventions for Low-Performing Students*, Center for School Improvement, BSU, Boise, ID. December 2–3. (Presented).
- *Deepening Students' Understanding of Math through Discourse: Exploration in Geometry*. Boise School District Inservice Days, Boise, ID. October 4. (Presented).
- *Cognitively Guided Instruction*. Comprehensive Center, Region VI (CCVI); University of Wisconsin—Madison, Madison, WI. July 28–August 2. (Presented).
- *Advanced Cognitively Guided Instruction*. Dearborn Public Schools, Dearborn MI. July 21–25. (Presented).
- *Children's Thinking with Addition and Subtraction*. Institute for Effective Teaching & Learning (IETL), BSU, Boise, ID. July 18–19. (Presented).
- *Teaching for Understanding: An In-depth Look at Mathematics Instruction & Curriculum*. Institute for Effective Teaching & Learning (IETL), BSU, Boise, ID. July 16–17. (Presented).
- *Promoting Instructional Practices: CHPS 2002 Summer Conference*. Center for School Improvement, BSU, Boise ID. June 19–21. (Organized and presented).
- *Advanced Cognitively Guided Instruction*. Kindergarten Center, Fargo, ND. June 2–6. (Presented).

2001

- *Mathematical Discourse*, Contact: Megdiah Jawad. Dearborn Public Schools, Dearborn MI. November 8 – 10. (Presented).
- *Assessing Mathematics – Assessment Literacy*, Center for School Improvement, BSU, Boise, ID. September 26 & 27. (Organized and presented).

- *1st Dearborn CGI Institute*. Dearborn Public Schools, Dearborn MI. August 5 – 9. (Presented).
- *4th Annual CGI Institute in Madison*. Comprehensive Center, Region VI (CCVI); University of Wisconsin—Madison, Madison, WI. July 29–August 3. (Organized and presented).
- *1st Annual CGI Institute in Fargo*. Kindergarten Center, Fargo, ND. July 22 – 26. (Presented).
- *CHPS 2001 Summer Conference*. Center for School Improvement, BSU, Boise, ID. June 18–20. (Organized).
- *Teaching for Understanding*. Institute for Effective Teaching & Learning (IETL), Boise State University, Boise, ID. July 16-17. (Presented).
- *Children's Thinking*. Institute for Effective Teaching & Learning (IETL), Boise State University, Boise, ID. June 15-16. (Presented).
- *Children's Mathematics: Cognitively Guided Instruction*. Compensatory Education Conference, Boise, ID. April 3–5. (Presented).
- *Student Thinking: An Inroad into Promoting Mathematical Literate Children*. National Title 1 Conference, Phoenix, AZ. March 18. (Presented).
- *Implementing CGI in the Classroom*. Dearborn Public Schools, Dearborn, MI. January 1–3. (Presented).

2000

- *3rd Annual CGI Institute in Madison*, Comprehensive Center, Region VI (CCVI), Madison, WI
- *Fostering Conceptually Based Mathematics Instruction*, Fargo, ND
- *Promoting CGI through Internet Mediums*, 1st Annual National CGI Conference. Phoenix, AZ
- Coordinator: Improving America's School Conference, Mathematics Strand. Louisville, KY
- *Family, Math* Presentation: North Dakota Title 1 Conference, Bismarck, ND

1999

- *2nd Annual CGI Institute in Madison*, Comprehensive Center, Region VI (CCVI), Madison, WI
- *Cognitive Academic Language Learning Approach (CALLA) and Mathematics in Context (MiC)*, Milwaukee, WI
- *Best practices in mathematics: Cognitive Academic Language Learning Approach (CALLA) and Mathematics in Context (MiC)*, Fargo, ND
- *Family, Math*, Bismarck, ND, North Dakota Title 1 Conference

1998

- *1st Annual CGI Institute in Madison*, Comprehensive Center, Region VI (CCVI), Madison, WI
- *Performance assessments in the state of Wisconsin*, Green Bay, WI
- *Performance assessments and the NCTM Standards*, Eau Claire, WI
- *Biases in assessment*, Waterloo, Iowa
- *Family Math*, Bismarck, ND

PROFESSIONAL CONSULTATIONS

2006-Present *Consultant*. Jerome School District, Jerome, ID

- Consulted with district mathematics team
- Provided ongoing assistance to teachers, including team teaching and teaching demonstration lessons

2005-2007 *Consultant*. Foothills School, Boise, ID

- Conducted all professional development activities related to mathematics

- Provided ongoing assistance to teachers, including team teaching and teaching demonstration lessons

2001-2004 *Consultant.* J.A. and Kathryn Albertson Foundation, Boise, ID

- Recommended to JKAF educational activities that supported and assisted 15 school district in the state of Idaho
- Assisted in the design of a comprehensive assessment system
- Built capabilities of Idaho educators that supported and assisted educators in assessment literacy
- Researched providers, information, and resources related to efforts in improving assessment practices
- Created and managed the Assessment Literacy Website
- Conducted needs assessment among the participating school districts in areas of curriculum, student assessment and instruction
- Acted as an external technical assistance provider to assigned school districts in the initiative

2001-2003 *Consultant.* Children’s School, Boise, ID

- Conducted all professional development activities related to mathematics
- Provided ongoing assistance to teachers, including team teaching and teaching demonstration lessons

2001-2003 *Consultant.* ANSER Inc.
Boise School District, Boise, ID

- Conducted all professional development activities related to mathematics, including 8 professional development days per year
- Provided ongoing assistance to teachers, including team teaching and teaching demonstration lessons

2000-2003 *Consultant.* Comprehensive Center, Region VI
University of Wisconsin—Madison, Madison WI

- Directed and completed an evaluative study of the effects of CGI on student achievement using a quasi-experimental design
- Managed Cognitively Guided Instruction (CGI) website, including bulletin board and chat room for elementary teachers and researchers
- Provided academic guidance to CGI professional developers across the country (AK, AZ, CA, IA, MI, MN, NC, ND, SD, TX, WI)
- Coordinated and conducted weeklong CGI institutes each with 50 to 100 participants

1996-2000 *Consultant.* Madison Metropolitan School District, Madison WI

- Provided academic guidance to “Algebra Gateway” professional developers
- Provided assistance to fourth and fifth grade teachers for improving students’ mathematical reasoning

SERVICE

Professional Societies

2004-present Kappa Delta Pi: Honorary Member

2004-present National Association for Bilingual Education (NABE)

2003-present	Idaho Association for Bilingual Education (IABE)
2003-present	Northern Rocky Mountain Educational Research Association (NRMERA)
1994-present	American Educational Research Association (AERA)
1992-present	National Council of Teachers of Mathematics (NCTM)
1992-present	Association for Supervision and Curriculum Development (ASCD)

Board Membership

2007-present	Board member: Idaho Council of Teachers of Mathematics (ICTM)
2004-present	Board member: Idaho Science Mathematics Technology Coalition (ISMTC)
2001-2005	Board member: ANSER Charter School

Review and Service

2004-present	Reviewer: <i>Journal for Research in Mathematics Education</i> .
1995-present	Reviewer: American Educational Research Association <i>Division C</i> : Proposal reviews: 1995 – present. <i>Division K</i> : Proposal reviews: 1999 – present.
1995-present	Reviewer: <i>Mathematics Teacher</i> .
2004-2005	Member: K-2 Mathematics Assessment Design Team.
1999-2002	Reviewer: <i>Lawrence Erlbaum</i> .
1998-2001	Reviewer: <i>American Education Research Journal</i> .
1996-1997	Member: Organizational Studies Working Committee.
1996	Rater and Table Leader: Wisconsin State Performance Assessment.
1994-1996	Member: Models of Authentic Assessment Working Group.
1994-1996	Student-teacher Supervisor: University of Wisconsin–Madison.
1993	Participant: Washington State Superintendent of Public Instruction’s educational restructuring video.
1993-1994	Cooperating Teacher for Pacific Lutheran University
1991-1993	Member: Bethel Public School’s Learner Outcomes Task Force.

Committees at Boise State University

2007

- CIFS: Search Committee: Mathematics Education (Chair)
- CIFS: Doctoral Management Committee
- CIFS: Doctoral Curriculum Committee
- COE: Promotion and Tenure Committee
- COE: Leadership Committee
- University: Faculty Research Association Committee

2006

- CIFS: Search Committee: Education Psychology
- CIFS: Search Committee: Mathematics Education (Chair)
- CIFS: Doctoral Management Committee (Chair) (*Brochure created, Doctoral Report written*)

- CIFS: Doctoral Curriculum Committee (Chair)
- COE: Promotion and Tenure Committee (*Created P&T rubrics, Edited Draft Policy Document*)
- COE: Leadership Committee
- COE: Graduate Program Coordinators' Committee
- University: Faculty Research Association Committee

2005

- CIFS: Search Committee: Education Psychology
- CIFS: Doctoral Management Committee (Chair) (*Revised Handbook*)
- CIFS: Doctoral Curriculum Committee (Chair) (*Minor Curriculum Changes*)
- COE: Promotion and Tenure Committee
- COE: Leadership Committee
- COE: Graduate Program Coordinators' Committee
- University: Faculty Research Association Committee

2004

- CIFS: Search Committee: C&I – 2 positions; Foundations; Philosophy
- CIFS: Doctoral Management Committee
- CIFS: Doctoral Program Planning Committee
- COE: Professional Development Schools
- COE: Graduate Program Coordinators' Committee
- University: Faculty Research Association Committee
- University: Research and Clinical Policy Review Committee

2003

- EESS: Search Committee: C&I – Elementary Social Studies
- EESS: Search Committee: C&I – Classroom Management
- EESS: Search Committee: Early Childhood Reading
- EESS: Field Guide Committee
- COE: Liaison Committee
- COE: Doctoral Management Committee
- University: Faculty Research Association Committee
- University: Engineering, Mathematics, Science and Education Committee
- University: NSF – Engineering and education grant writing committee (Chair)

2002

- EESS: Search Committee: Early Childhood Reading
- EESS: Field Guide Committee
- COE: CIFS Chair Search Committee
- COE: Search Committee: Coordinator of the COE Advising Center
- COE: Strategic Planning Advisory Committee
- COE: Conceptual Framework Committee (*document written*)
- COE: Professional Standards Committee
- COE: Liaison Committee
- COE: Doctoral Management Committee
- University: Faculty Research Association Committee

- University: Engineering, Mathematics, Science and Education Committee (*document written*)

2001

- EESS: Strategic Planning Advisory Committee
- EESS: Teacher-in-Residence Committee
- EESS: Liaison Committee (*Co-created a liaison/mentor evaluation instrument*)
- EESS: Field Guide Committee (*Introduced new work sample framework*)
- COE: CIFS Search Committee: Chair
- COE: Conceptual Framework Committee
- COE: Professional Standards Committee
- COE: Admissions Test Committee
- COE: NCATE Standard 3
- COE: Liaison Committee
- University: University Search Committee: Vice President of Research

- University: Faculty Research Association Committee
- University: Engineering, Mathematics, Science and Education Committee

2000

- EESS: Field Guide Committee
- EESS: Teacher-in-Residence Committee
- COE: Professional Standards Committee
- COE: Admissions Test Committee
- COE: Conceptual Framework Committee
- COE: Liaison Committee
- COE: Field Placement Coordinator Committee

PERSONAL REFERENCES

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