# Curriculum Vita

Scott J. Baldridge
April 2014

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## Academic Degrees

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|---|---|
| Ph.D. | 2001 Michigan State University, thesis advisor: Ronald Fintushel |
| M.S. | 1996 Michigan State University, Mathematics |
| B.S. | 1993 Kettering University, Information Systems, Magna Cum Laude |

### Interests

Research Mathematics: Geometric Topology and Differential Geometry
Education and Outreach Mathematics: School Mathematics Curricula and Mathematical Knowledge for Teachers

## Professional Experience

| | |
|---|---|
| 2012-14 | Common Core Fellow in Mathematics, Common Core |
| 2010 | Research Member, Mathematical Sciences Research Institute, Spring Program |
| 2009– | Associate Professor, Louisiana State University, Department of Mathematics |
| 2004–09 | Assistant Professor, Louisiana State University, Department of Mathematics |
| 2003 | Research Fellow, Institute for Pure and Applied Mathematics. |
| 2001–04 | VIGRE Postdoctoral Fellow, Indiana University at Bloomington, Mathematics Department |
| 1995–01 | Teaching Assistant, Michigan State University, Mathematics Department |
| 1994–95 | Problem editor and illustrator, Connected Mathematics Project |
| 1988–93 | Systems Analyst and Programmer, Whirlpool Corporation |

## Publications and Books

### Published/Accepted or in Revision

1. S. Baldridge and P. Kirk, *Coisotropic Luttinger surgery and some new symplectic 6-manifolds with vanishing canonical class*, Indiana Univ. Math. J. **62** (2013), 1457-1471.

2. S. Baldridge and A. Lowrance, *Cube diagrams and 3-dimensional Reidemeister-like moves for knots*, Journal of Knot Theory and Its Ramifications, **21** (2012) no. 5.

3. S. Baldridge and B. McCarty, *Small examples of cube diagrams of knots*, Topology Proceedings, **36** (2010), 213-228.

4. A. Akhmedov, S. Baldridge, I. Baykur, P. Kirk, and B. D. Park, *Simply connected minimal symplectic 4-manifolds with signature less than –1*, Journal of the European Mathematical Society, **12** (2010), no. 1, 133-161.

5. S. Baldridge and P. Kirk, *Constructions of small symplectic 4-manifolds using Luttinger surgery*, Journal of Differential Geometry, **82** (2009) no. 2, 317–361.

6. S. Baldridge and P. Kirk, *A symplectic manifold homeomorphic but not diffeomorphic to* $\mathbb{CP}^2\#3\overline{\mathbb{CP}}^2$, Geometry & Topology 12 (2008), 919–940.

7. S. Baldridge and P. Kirk, *Symplectic 4-manifolds with arbitrary fundamental group near the Bogomolov-Miyaoka-Yau Line,* Journal of Symplectic Geometry, **4** (2006), no. 1, 63–70. 53D35 (14Jxx 57R17).

8. S. Baldridge and P. Kirk, *On symplectic 4-manifolds with prescribed fundamental group*, Commentarii Mathematici Helvetici, **82** (2007) no. 4, 845–843.

9. S. Baldridge and T. Parker, *Elementary Geometry for Teachers*, Okemos, MI: Sefton-Ash Publishing, (2008) xii+258 pages.

10. S. Baldridge and T.J. Li, *Geography of symplectic 4–manifolds with Kodaira dimension one*, Algebraic and Geometric Topology, **5** (2005), 355-368.

11. S. Baldridge, *New symplectic* $4$*–manifolds with* $b_+{=}1$, Mathematische Annalen **333** (2005) 633-643.

12. S. Baldridge, *Seiberg–Witten vanishing theorem for* $S^1$*–manifolds with fixed points*, Pacific Journal of Mathematics, **217** (2004), no. 1, 1–10.

13. T. Parker and S. Baldridge, *Elementary Mathematics for Teachers*, Okemos, MI: Sefton-Ash Publishing, (2004) x+237 pages.

14. S. Baldridge, *Seiberg–Witten invariants, orbifolds, and circle actions*, Transactions of the American Mathematical Society **355** (2002), no. 4, 1669 – 1697.

15. S. Baldridge, *Seiberg–Witten invariants of* $4$*-manifolds with free circle actions*, Commun. Contemp. Math, **3** (2001), 341 – 353.

16. S. Baldridge, Thesis. Michigan State University, May 2001.

## EngageNY/Eureka Math PK-12 Curriculum

I am the Lead Writer and Lead Mathematician for a national PK-12 mathematics curriculum based upon the Common Core State Standards. It is the first complete curriculum designed to meet the Common Core State Standards in all grades and includes teacher lesson plans, student textbooks, homework sets, and student assessments. The curriculum is produced through Common Core, Inc., a nonprofit organization where I am also a research fellow. The curriculum was initially created for New York and is freely available to download at engageNY.org; the national version of the curriculum is called Eureka Math, and can is available at commoncore.org. The curriculum splits into three works: *A Story of Units* in grades PK-5, *A Story of Ratios* in grades 6-8, and *A Story of Functions* in grades 9-12.

### Overview Documents

17. Scott Baldridge, Jill Diniz, *A Story of Functions: Curriculum Map and Overview 9-12 Mathematics*, Albany, NY: Engage New York, (2012) 53 pages. Available at:
    www.engageny.org/sites/default/files/resource/attachments/a_story_of_functions_currriculum_map_and_overview_9-12.pdf

18. Scott Baldridge, Jill Diniz, *A Story of Ratios: A Curriculum Overview for Grades*, Albany, NY: Engage New York, (2012) 31 pages. Available at:
    www.engageny.org/sites/default/files/resource/attachments/a-story-of-ratios-a-curriculum-overview-for-grades-6-8.pdf

19. Scott Baldridge, Robin Ramos, *How to Implement "A Story of Units"*, Albany, NY: Engage New York, (2012) 45 pages. Available at:
    www.engageny.org/sites/default/files/resource/attachments/how_to_implement_a_story_of_units.pdf

20. Scott Baldridge, Robin Ramos, *A Story of Units: A Curriculum Overview for Grades P-5*, Albany, NY: Engage New York, (2012) 63 pages. Available at:
    www.engageny.org/sites/default/files/resource/attachments/a-story-of-units-a-curriculum-overview-for-grades-p-5.pdf

### Kindergarten

21. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade K, Module 1: Numbers to 10*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 368 pages. ISBN:978-1-118-81131-3

22. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade K, Module 2: Two-Dimensional and Three-Dimensional Shapes*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 96 pages. ISBN: 978-1-118-79358-9

23. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade K, Module 3: Comparison of Length, Weight, Capacity, and Numbers to 10*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 312 pages. ISBN: 978-1-118-79350-3

24. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade K, Module 4: Number Pairs, Addition and Subtraction to 10*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 432 pages. ISBN: 978-1-118-81120-7

25. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade K, Module 5: Numbers 10-20 and Counting to 100*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 256 pages. ISBN: 978-1-118-79338-1

26. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade K, Module 6: Analyzing, Comparing, and Composing Shapes*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 120 pages. ISBN: 978-1-118-81121-4

**First Grade**

27. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 1, Module 1: Sums and Differences to 10*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 496 pages. ISBN: 978-1-118-79285-8

28. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 1, Module 2: Introduction to Place Value Through Addition and Subtraction Within 20*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 384 pages. ISBN: 978-1-118-79336-7

29. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 1, Module 3: Ordering and Comparing Length Measurements as Numbers*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 192 pages. ISBN: 978-1-118-81138-2

30. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 1, Module 4: Place Value, Comparison, Addition and Subtraction to 40*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 400 pages. ISBN: 978-1-118-81124-5

31. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 1, Module 5: Identifying, Composing, and Partitioning Shapes.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 208 pages. ISBN: 978-1-118-81133-7

32. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 1, Module 6: Place Value, Comparison, Addition and Subtraction to 100.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 376 pages. ISBN: 978-1-118-81132-0

**Second Grade**

33. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 2, Module 1: Sums and Differences to 20.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 136 pages. ISBN: 978-1-118-79293-3

34. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 2, Module 2: Addition and Subtraction of Length Units.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 144 pages. ISBN: 978-1-118-79363-3

35. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 2, Module 3: Place Value, Counting, and Comparison of Numbers to 1,000.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 296 pages. ISBN: 978-1-118-79349-7

36. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 2, Module 4: Addition and Subtraction Within 200 with Word Problems to 100.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 416 pages. ISBN: 978-1-118-79345-9

37. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 2, Module 5: Addition and Subtraction Within 1,000 with Word Problems to 100.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 288 pages. ISBN: 978-1-118-81122-1

38. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 2, Module 6: Foundations of Multiplication and Division.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 288 pages. ISBN: 978-1-118-81141-2

39. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 2, Module 7: Problem Solving with Length, Money, and Data.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 384 pages. ISBN: 978-1-118-81158-0

40. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 2, Module 8: Time, Shapes, and Fractions as Equal Parts of Shapes.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 256 pages. ISBN: 978-1-118-86256-8

**Third Grade**

41. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 3, Module 1: Properties of Multiplication and Division and Solving Problems with Units of 2-5 and 10.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 288 pages. ISBN: 978-1-118-79295-7

42. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 3, Module 2: Place Value and Problem Solving with Units of Measure*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 296 pages. ISBN: 978-1-118-79360-2

43. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 3, Module 3: Multiplication and Division with Units of 0, 1, 6-9, and Multiples of 10*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 288 pages. ISBN: 978-1-118-79342-8

44. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 3, Module 4: Multiplication and Area*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 224 pages. ISBN: 978-1-118-81149-8

45. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 3, Module 5: Fractions as Numbers on the Number Line*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 384 pages. ISBN: 978-1-118-79411-1

46. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 3, Module 6: Collecting and Displaying Data*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 152 pages. ISBN: 978-1-118-81161-0

47. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 4, Module 2: Unit Conversions and Problem Solving with Metric Measurement*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 472 pages. ISBN: 978-1-118-81147-4

**Fourth Grade**

48. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 4, Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, XX pages. ISBN: 978-1-978-1-118-79296-4

49. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 4, Module 2: Unit Conversions and Problem Solving with Metric Measurement*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 96 pages. ISBN: 978-1-118-79351-0

50. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 4, Module 3: Multi-Digit Multiplication and Division*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 504 pages. ISBN: 978-1-118-79367-1

51. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 4, Module 4: Angle Measure and Plane Figures*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 288 pages. ISBN: 978-1-118-81160-3

52. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 4, Module 5: Fraction Equivalence, Ordering and Operations*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 552 pages. ISBN: 978-1-118-81126-9

53. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 4, Module 6: Decimal Fractions*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 272 pages. ISBN: 978-1-118-81142-9

54. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 4, Module 7: Exploring Multiplication*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 256 pages. ISBN: 978-1-118-81137-5

**Fifth Grade**

55. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics: A Story of Units, Grade 5, Module 1: Place Value and Decimal Fractions*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 256 pages. ISBN: 978-1-118-79297-1

56. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 5, Module 2: Multi-Digit Whole Number and Decimal Fraction Operations.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 392 pages. ISBN: 978-1-118-79369-5

57. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 5, Module 3: Addition and Subtraction of Fraction.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 256 pages. ISBN: 978-1-118-79371-8

58. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 5, Module 4: Multiplication and Division of Fractions and Decimal Fractions.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 512 pages. ISBN: 978-1-118-79354-1

59. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 5, Module 5: Addition and Multiplication with Volume and Area.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 320 pages. ISBN: 978-1-118-81139-9

60. Scott Baldridge, Ben McCarty, Robin Ramos, *Common Core Mathematics, A Story of Units: Grade 5, Module 6: Problem Solving with the Coordinate Plane.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 440 pages. ISBN: 978-1-118-81129-0

**Sixth Grade**

61. Scott Baldridge, Erika Silva, *Common Core Mathematics, A Story of Ratios: Grade 6, Module 1: Ratios and Unit Rates.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 424 pages. ISBN: 978-1-118-79347-3

62. Scott Baldridge, Erika Silva, *Common Core Mathematics, A Story of Ratios: Grade 6, Module 2: Arithmetic Operations Including Division of Fractions.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 336 pages. ISBN: 978-1-118-81127-6

63. Scott Baldridge, Erika Silva, *Common Core Mathematics, A Story of Ratios: Grade 6, Module 3: Rational Numbers.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 320 pages. ISBN: 978-1-118-81131-3

64. Scott Baldridge, Erika Silva, *Common Core Mathematics, A Story of Ratios: Grade 6, Module 4: Expressions and Equations.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 608 pages. ISBN: 978-1-118-81117-7

65. Scott Baldridge, Erika Silva, *Common Core Mathematics, A Story of Ratios: Grade 6, Module 5: Area, Surface Area, and Volume Problems.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 528 pages. ISBN: 978-1-118-81123-8

66. Scott Baldridge, Henry Kranendonk, Roxy Peck, *Common Core Mathematics, A Story of Ratios: Grade 6, Module 6: Statistics.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 448 pages. ISBN: 978-1-118-79343-5

**Seventh Grade**

67. Scott Baldridge, Anne Netter, Julie Wortmann, *Common Core Mathematics, A Story of Ratios: Grade 7, Module 1: Ratios and Proportional Relationships.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 376 pages. ISBN: 978-1-118-79356-5

68. Scott Baldridge, Anne Netter, Julie Wortmann, *Common Core Mathematics, A Story of Ratios: Grade 7, Module 2: Rational Numbers.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 448 pages. ISBN: 978-1-118-81115-3

69. Scott Baldridge, Anne Netter, Julie Wortmann, *Common Core Mathematics, A Story of Ratios: Grade 7, Module 3: Expressions and Equations.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 592 pages. ISBN: 978-1-118-81111-5

70. Scott Baldridge, Anne Netter, Julie Wortmann, *Common Core Mathematics, A Story of Ratios: Grade 7, Module 4: Percent and Proportional Relationships.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 448 pages. ISBN: 978-1-118-81113-9

71. Scott Baldridge, Henry Kranendonk, Roxy Peck, *Common Core Mathematics, A Story of Ratios: Grade 7, Module 5: Statistics and Probability.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 520 pages. ISBN: 978-1-118-81112-2

72. Scott Baldridge, Pia Mohsen, David Wright, *Common Core Mathematics, A Story of Ratios: Grade 7, Module 6: Geometry.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 512 pages. ISBN: 978-1-118-81109-2

**Eighth Grade**

73. Scott Baldridge, Stefanie Hassan, *Common Core Mathematics, A Story of Ratios: Grade 8, Module 1: Integer Exponents and Scientific Notation.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 240 pages. ISBN: 978-1-118-79370-1

74. Scott Baldridge, Stefanie Hassan, *Common Core Mathematics, A Story of Ratios: Grade 8, Module 1: Integer Exponents and Scientific Notation.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 336 pages. ISBN: 978-1-118-81102-3

75. Scott Baldridge, Stefanie Hassan, *Common Core Mathematics, A Story of Ratios: Grade 8, Module 3: Similarity.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 304 pages. ISBN: 978-1-118-81107-8

76. Scott Baldridge, Stefanie Hassan, *Common Core Mathematics, A Story of Ratios: Grade 8, Module 4: Linear Equations.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 736 pages. ISBN: 978-1-118-81104-7

77. Scott Baldridge, Stefanie Hassan, *Common Core Mathematics, A Story of Ratios: Grade 8, Module 5: Examples of Functions from Geometry.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 272 pages. ISBN: 978-1-118-81082-8

78. Scott Baldridge, Henry Kranendonk, Roxy Peck, *Common Core Mathematics, A Story of Ratios: Grade 8, Module 6: Linear Functions.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 360 pages. ISBN: 978-1-118-81097-2

79. Scott Baldridge, Stefanie Hassan, *Common Core Mathematics, A Story of Ratios: Grade 8, Module 7: Introduction to Irrational Numbers Using Geometry.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 520 pages. ISBN: 978-1-118-81100-9

**Algebra I**

80. Scott Baldridge, Jill Diniz, *Common Core Mathematics, A Story of Functions: Algebra I, Module I: Relationships Between Quantities and Reasoning with Equations and Their Graphs.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 560 pages. ISBN: 978-1-118-79376-3

81. Scott Baldridge, Henry Kranendonk, Roxy Peck, *Common Core Mathematics, A Story of Functions: Algebra 1, Module 2: Descriptive Statistics.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 432 pages. ISBN: 978-1-118-79364-0

82. Scott Baldridge, Jill Diniz, *Common Core Mathematics, A Story of Functions: Algebra I, Module 3: Linear and Exponential Functions.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2014, 544 pages. ISBN: 978-1-118-81114-6

**Geometry**

83. Scott Baldridge, Pia Mohsen, *Common Core Mathematics, A Story of Functions: Geometry, Module 1: Congruence, Proof, and Constructions*. Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, 528 pages. ISBN: 978-1-118-79368-8

84. Scott Baldridge, Stefanie Hassan, Pia Mohsen, *Common Core Mathematics, A Story of Functions: Geometry, Module 2: Similarity, Proof, and Trigonometry.* Washington D.C: Common Core, Inc. [producer]. Indianapolis, IN: Jossey-Bass, 2013, XXX pages. ISBN: 978-1-118-81144-3

## Submitted/Preprints

85. S. Baldridge and B. McCarty, *On the rotation class of knotted Legendrian tori in* $\mathbb{R}^5$, submitted.

86. S. Baldridge and B. McCarty, *On the contact homology of knotted Legendrian tori in* $\mathbb{R}^5$. (In preparation.)

87. S. Baldridge, *Knotted Tori in* $\mathbb{R}^4$ *and Hypercube Homology*, arXiv:1010.3742v1 [math.GT].

88. S. Baldridge and P. Kirk, *Luttinger Surgery and interesting symplectic 4-manifolds with small Euler characteristic*, arXiv:math/0701400v2 [math.GT].

89. S. Baldridge, *A new genre of mathematics curricula in the US: the epic curriculum*.

## Computer Programs and Non-mathematical Publications

90. S. Baldridge, A. Lowrance. *Cube Knot Calculator*, (Mathematica software), [Computer Program] (2010), http://cubeknots.googlecode.com.

91. S. Baldridge, T. Parker, *Instructor Resources: Elementary Mathematics for Teachers*, [Computer Program and website] (2009), www.elementarymathforteachers.com.

92. S. Baldridge, *Multivariable Alexander Polynomial Calculator for Mathematica*, (Mathematica software), [Computer Program], (1999).

93. S. Baldridge, *Experiments in measuring uncertainty*, Steelcase Inc., (1996), 1–17.

94. S. Baldridge, *Employee Development System*, (ObjectPal, C++), [Computer Program], Whirlpool Corporation, (1993). Includes a 156 page user guide.

95. S. Baldridge, *WIK System*, (EIS Commander, Pascal), [Computer Program], Whirlpool Corporation, (1991).

96. S. Baldridge, *NetQuest System*, (Nomad2), [Computer Program], Whirlpool Corporation, (1989).

97. S. Baldridge, *Teacher Gradebook Module*, (TurboBasic), [Computer Program], Surfside Software, Inc., Massachusetts, (1987). Includes a 46 page user guide. (I started writing this program when I was 15; it sold nationally and paid for part of my college education.)

## Students

1. Adam Lowrance, Ph.D. (2009). Adam was a VIGRE postdoc at University of Iowa and is now an Assistant Professor of Mathematics (tenure track) at Vassar College.

2. Ben McCarty, Ph.D. (2012). Ben is an Assistant Professor of Mathematics (tenure track) in the Department of Mathematics at the University of Memphis.

3. Peter Lambert-Cole, Ph.D. (anticipated 2014). Peter is a Zorn Postdoc at Indiana University.

4. Forrest Gordon is currently a fifth year graduate student.

## University or Distinguished Lectures

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|---|---|
| Sept. 2011 | Keynote Speaker, LaGear UP Conference, Baton Rouge, LA |
| Apr. 2010 | University Lecture, Arizona State University. |

## Recent Invited Lectures and Colloquiums

| | |
|---|---|
| Mar. 2014 | Invited Speaker, Mathematicians in Mathematics Education Workshop, Texas A&M, TX |
| Mar. 2014 | Invited Speaker, Critical Issues in Mathematics Education 2014: The role of the mathematics department in the mathematical preparation of teachers, MSRI, Berkeley, CA |
| Jan. 2014 | Invited Speaker, Mathematicians and School Mathematics Education: A Pan-American Workshop, BIRS, Banff |
| Nov. 2013 | Invited Speaker, Network Team Institute, Albany, NY |
| July 2013 | Invited Speaker, Network Team Institute, Albany, NY |
| May 2013 | Invited Speaker, Writer's Workshop, New York City, NY |
| May 2013 | Invited Speaker, Network Team Institute, Albany, NY |
| Aug. 2012 | Invited Speaker, Network Team Institute, Albany, NY |
| Apr. 2012 | Invited Speaker, Geometric Structures on Manifolds (12w5121), BIRS, Banff |
| Nov 2011 | Invited Speaker, LATM 2011 Conference, Monroe, LA |

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| Nov 2011 | Invited Speaker, Career Award Regional Forum, LSU |
| Sep. 2011 | Invited Panelist, Making Science Cool: Soving the Shortage of Math and Science Students, U.S. News and World Report, National Press Club, Washington DC |
| Sep. 2011 | Invited Speaker, Common Core, Inc., Washington DC |
| Aug. 2011 | Invited Speaker, Aarhus Gauge Theory Workshop, Aarhus, Denmark |
| June 2011 | Invited Speaker, LSU Math Circle, LSU |
| July 2011 | Principal Speaker, 2 day mini-course, Los Angeles |
| April 2011 | Invited Speaker, Burroughs Wellcome Fund, Research Triangle Park, North Carolina |
| April 2011 | AMS Special Session on Knots, Surfaces and 3-manifolds, University of Nevada, NV |
| Jan. 2011 | Principal Speaker, 1 day mini-course, Episcopal Lower School, Baton Rouge, LA |
| Sept. 2010 | Invited Speaker, Rockford High School, Rockford, MI |
| Sept. 2010 | Invited Speaker, Internat. Seminar on Math., Physics and Chem. Textbook, Santiago, Chile |
| Aug. 2010 | Invited Speaker, Tiger Prep, LSU |
| July 2010 | Principal Speaker, 10 day mini-course, City of Baker, LA |
| June 2010 | Invited Speaker, LSU Math Circle, LSU |
| June 2010 | Principal Speaker, 4 day mini-course, Episcopal Lower School, Baton Rouge, LA |
| May 2010 | AMS Special Session on Homology Theories for Knots and Skein Modules, Newark, NJ |
| May 2010 | AMS Special Session on Invariants of Knots, Links, and 3-Manifolds, Newark, NJ |
| Feb. 2010 | Invited Speaker, Texas Geometry and Topology Conference, Fort Worth, TX, hosted by Texas Christian University and University of Texas at Arlington |
| Feb. 2010 | Invited Speaker, Spring Program, Mathematical Sciences Research Institute, CA |
| Feb. 2010 | Invited Speaker, Teacher Circle, Laney College, CA |
| Jan. 2010 | Invited Speaker, Association of Mathematics Teacher Educators, Irvine, CA |
| Jan. 2010 | AMS Committee on Education Panel Discussion on the Common Core Standards, San Francisco, CA |
| Aug. 2009 | Invited Speaker, Tiger Prep |
| June 2009 | Principal Speaker, 10 day mini-course, City of Baker, Louisiana |
| June 2009 | Invited Speaker, LSU Math Circle |
| Apr. 2009 | Seminar Speaker, Georgia Tech, Atlanta, GA |
| Mar. 2009 | Invited Speaker, Spring Topology and Dynamics Conference, Gainesville, FL |
| Mar. 2009 | Colloquium, Purdue University (in Mathematics) |
| Mar. 2009 | Seminar Speaker, Purdue University (in Education) |
| Feb. 2009 | LSU/Iowa Virtual Seminar, LSU |
| Jan. 2009 | AMS Committee on Education Panel Discussion on National Mathematics Panel, Washington, D.C. |
| Jan. 2009 | AMS Special Session on Mathematics Education on Baker Grant, Washington, D.C. |
| Jan. 2009 | AMS Special Session on Mathematics Education on NSF CCLI grant, Washington, DC. |
| Jan. 2009 | MAA Poster Session on Projects Supported by the NSF Division of Undergraduate Education. |
| Nov. 2008 | Invited Speaker, University of Michigan (in Mathematics) |
| Nov. 2008 | Invited Speaker, University of Michigan (in Education) |
| June 2008 | Principal Speaker, 10 day mini-course, City of Baker, Louisiana |
| May 2008 | Invited Speaker, Stepping up to the Challenge, 40th Annual Conference, WMC, Green Lake, WI |
| May 2008 | Speaker (w/ T. Parker), Stepping up to the Challenge, 40th Annual Conference, WMC, WI |
| May 2008 | Invited Speaker, AMS Special Session, Claremont University, CA |
| Apr. 2008 | Invited Speaker, Isidore Newman School, New Orleans, LA |
| Mar. 2008 | Invited Speaker, AMS Special Session, Baton Rouge, LA |
| Feb. 2008 | Colloquium, University of Memphis (in Education) |

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| Feb. 2008 | Colloquium, University of Memphis (in Mathematics) |
| Feb. 2008 | Seminar Speaker, Indiana University |
| June 2007 | Principal Speaker, 5 day mini-course, Delaware Foundation for Sci. and Math. Ed., Wilmington, DE. |
| May 2007 | Invited Speaker, Georgia Topology Conference, Univ. of Georgia. |
| May 2007 | Seminar Speaker, University of Massachusetts. |
| Mar. 2007 | Invited Speaker, Interactions of geo. and topology in low dimensions conference, BIRS, Banff. |
| Mar. 2007 | Invited Speaker, Tulane University. |
| Feb. 2007 | Invited Speaker, Second Louisiana-Texas-Topology-Retreat Conference |
| Jan. 2007 | AMS-MAA-MER Special Session on Mathematics and Education Reform, New Orleans |
| Nov. 2006 | Invited Speaker, University of Louisiana, Lafayette. |
| Nov. 2006 | Invited Speaker, Symplectic Geometry and Topology and their Applications Conference, Poland. |
| Aug. 2006 | Principal Speaker, 5 day mini-course, Wyoming, Michigan. |
| Apr. 2006 | AMS Special Session on Invariants of Low Dimensional Manifolds, Miami, Florida |
| Mar. 2006 | Colloquium, Texas State University |
| Feb. 2006 | Principal Speaker, 2 day mini-course, Beaumont Texas |
| Feb. 2006 | Colloquium, Rice University |
| Jan. 2006 | AMS Special Session on New Developments in Symplectic Topology, San Antonio |
| Dec. 2005 | Principal Speaker, 2 day mini-course, Beaumont Texas |
| Aug. 2005 | Principal Speaker, 5 day mini-course, Singapore Mathematics Institute, Madison, Wisconsin |
| May 2005 | Invited Speaker, Conference, Mathematical Sciences Research Institute (MSRI) |
| May 2005 | Invited Speaker, Symplectic Geometry Program Reunion Conference (IPAM), Lake Arrowhead |
| Apr. 2005 | Colloquium, Southeastern Louisiana University |
| Apr. 2005 | Colloquium, California State University, Fullerton |
| Apr. 2005 | Colloquium, Chapman University, California |
| Apr. 2005 | Colloquium, California State University, Northridge |
| Mar. 2005 | Invited Speaker, Geometry and Topology Seminar, Tulane University |
| Feb. 2005 | Invited Speaker, BRACTM conference, Baton Rouge |
| Jan. 2005 | AMS Special Session on Mathematicians' work on Mathematics Education, Atlanta Georgia |
| Oct. 2004 | Lecture to introduce graduate students to topology, Louisiana State University |
| Sept. 2004 | Colloquium, Southeastern Louisiana University |
| Aug. 2004 | Principal Speaker, 3 day mini-course, Singapore Mathematics Institute, Madison, Wisconsin |
| May 2004 | Invited Speaker, Conference on Geometry and Topology of Manifolds, McMaster University |
| Feb. 2004 | Colloquium, The Ohio State University |
| Feb. 2004 | Colloquium, Loyola University of Chicago |
| Jan. 2004 | Colloquium, Louisiana State University (in Mathematics) |
| Jan. 2004 | Colloquium, Louisiana State University (in Education) |
| Jan. 2004 | AMS Special Session on Geometric Structures on Manifolds |
| Jan. 2004 | AMS Special Session on Low-Dimensional Topology |
| Jan. 2004 | AMS-MAA-MER Special Session on Mathematics and Education Reform, Phoenix |
| Nov. 2003 | Invited Speaker, Special Workshop on Mathematics Education, The Ohio State University |
| Aug. 2003 | Invited Speaker, Differential Geometry Seminar, University of Minnesota |
| Aug. 2003 | Principal Speaker, 5 day mini-course, Singapore Mathematics Institute, Madison, Wisconsin |
| May 2003 | Invited Speaker, Tenth Gökova Geometry/Topology Conference, Gökova, Turkey |
| May 2003 | Colloquium, California State University at Los Angeles |
| April 2003 | Colloquium, University of Memphis |

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| April 2003 | Invited Speaker, Symplectic Geometry Seminar, IPAM, UCLA |
| April 2003 | AMS Special Session on Topology, Indiana University |
| Jan. 2003 | Invited Speaker, Differential Geometry Seminar, Georgia Tech |
| Nov. 2002 | Invited Speaker, AMS Committee on Education, Washington, D.C., November, 2002 |
| Nov. 2002 | Invited Speaker, Differential Geometry Seminar, University of Illinois |
| April 2002 | Invited Speaker, Gauge Theory Seminar, Michigan State University |
| Feb. 2002 | Topology and Geometry seminar, Indiana University |
| Jan. 2002 | Low Dimensional Topology Seminar, AMS/MAA Joint Mathematics Meeting |
| Nov. 2001 | Invited Speaker, Differential Geometry Seminar, Massachusetts Institute of Technology |

## Awards, Honors, Grants, Recognitions: $2 Million+.

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| Mathematics Research: | $563,076. |
| Mathematics Education and Research: | $1,025,617. |
| Mathematics Graduate/Undergraduate Outreach: | $784,126. |

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| 2012-4 | **Common Core, Development of Common Core PK-12 Curriculum in Mathematics**, $359,156. |
| 2011 | **Tiger Athletic Foundation President's Award.** Awarded to 1-4 professors per year university-wide: "recognizes a faculty member for extraordinary classroom teaching as demonstrated by an impact on and involvement with students." |
| 2011 | Louisiana Systemic Initiatives Program (LaSIP), Building a High Performing Mathematics Program in the City of Baker School System, $137,775. |
| 2011 | The Brookhill Foundation, Building a High-Performing Mathematics Program in the City of Baker School System, Private Donation, $63,000. |
| 2010 | Rockford Hall of Fame, Rockford, MI. I am one of 10 inductees to my alma maters hall of fame. |
| 2010 | Louisiana Systemic Initiatives Program (LaSIP), Building a High Performing Mathematics Program in the City of Baker School System, $211,994. |
| 2010 | The Brookhill Foundation, Building a High-Performing Mathematics Program in the City of Baker School System, Private Donation, $70,000. |
| 2008 | Rainmaker Award, LSU's "Top 100 Faculty Scholars" |
| 2008 | Invited to run for Member at Large to the Council of the AMS |
| 2008 | LEQSF(2008-10)-ENH-TR-04, Board of Regents, Human Resource Development in Mathematical Science, $140,000. |
| 2008 | LEQSF, Board of Regents, Professional Master's Degree Programs for K-12 STEM Teachers, $140,336. |
| 2008 | **NSF CAREER Award DMS-0748636, CAREER: The topology of smooth and symplectic 4-manifolds**, $452,869. |
| 2008 | Louisiana Systemic Initiatives Program (LaSIP), Building a High-Performing Mathematics Program in the City of Baker School System, $352,140. |
| 2008 | The Brookhill Foundation, Building a High-Performing Mathematics Program in the City of Baker School System, Private Donation, $136,650. |
| 2008 | Gabriella and Paul Rosenbaum Foundation, Building a High-Performing Mathematics Program in the City of Baker School System, Private Donation, $15,000. |

2007 NSF-DUE, Collaborative Research: Elementary Mathematics for Teachers, $149,521.
2006 Research fellowship, Park City Mathematics Institute, IAS.
2005 Nominated by LSU for the Rising Star of Academia award, given by the Chronicles of Higher Education.
2005 LEQSF-ENH grant, Overcoming Louisiana's Mathematics Gap: From Algebra to Calculus, $229,946
2005 NSF Grant DMS-0506737, Conference in Honor of Ronald Fintushel, $15,000
2004 NSF Grant DMS-0507857, Transfer of Grant DMS-0406021 to LSU, $67,163, ($57,163 from NSF and $10,000 from LSU)
2004 **NSF Grant DMS-0406021, The Topology of Smooth 4–manifolds, with Applications to the Topology of Symplectic 4–Manifolds**, $75,207
2003 Research fellowship, Institute for Pure and Applied Mathematics (Spring Program)
2001 Research consultant, Michigan State University, $5000
2001 Research fellowship, Park City Mathematics Institute, IAS
2001 Dissertation completion fellowship, College of Natural Sciences, Michigan State University
1998 Graduate student teaching award, Michigan State University
1996 Steelcase Research Grant, Steelcase Corporation, $10,000
1993 Special distinction for outstanding thesis, Kettering University
1992 Sigma Alpha Chi Honorary Management Society

## Conferences Organized

2010 Critical Issues in Mathematics Education: Reasoning and Sense-Making in the Math Curriculum, Mathematical Sciences Research Institute, CA from June 07, 2010 to June 09, 2010.

2008 AMS Special Session on Gauge Theory in Smooth and Symplectic Topology, Spring Southeastern Meeting in Baton Rouge, LA on March 28-30.

2007 AMS Special Session on Recent Developments in Floer Homology, AMS/MAA Joint Mathematics Meetings New Orleans, LA, January 5-8, 2007.

2006 Topology Conference Honoring Ronald Fintushel. Held at Tulane University, November 10–12, 2006. Co-organizers: Terry Lawson and Thomas Mark.

## Service and Professional Activities

2010-2012 Hiring Committee, Department of Mathematics
2009-2012 LSU Curriculum Committee, Department of Mathematics
2006-2012 Undergraduate Advisors Committee, Department of Mathematics
2008-2012 VIGRE Steering Committee, Department of Mathematics
2008-2009 Team Leader, American Mathematical Society, National Math Panel Forum.
2008 Participant, Science and Mathematics Teacher Imperative-NASULGC, Austin, TX, February.
2006-2007 Internal Review Committee, Department of Mathematics, LSU
2006 Masters of Natural Science Development Committee, Department of Mathematics, LSU

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| 2005 | Organizer, Teaching in East Baton Rouge Parish Schools after Katrina presentation, LSU. |
| 2005 | Volunteer, Pete Maravich Assembly Center, LSU's Hurricane Katrina acute care field hospital |
| 2005 | Review team member, Chancellor's Distinguished Lectureship Series, LSU |
| 2004–2008 | Student Advisor Committee, Department of Mathematics, Louisiana State University |
| 2004–2008 | Secondary Education Committee, College of Arts and Science, Louisiana State University |
| 2004 | Participant, Step thru Stem Retreat, May |
| 2004 | Participant, Standards Setting Meeting, American Board for Certification of Teacher Excellence |
| 2003 | REU Project Advisor, Student: Russell Halper |
| 2002–2004 | Principal organizer, VIGRE Seminar, Indiana University |
| 2002 | Participant, Standards for Success Project |
| 2002 | Course Adoption Committee, 21st Century Teacher Project |
| 1997–1998 | Principal organizer, Knot theory student seminar, Michigan State University |
| 1998–1999 | Dean's Student Advisory Council, College of Natural Science, Michigan State University |
| 1997–1998 | Graduate Student Committee, Department of Mathematics, Michigan State University |
| 1997–1998 | Directed a knot theory student seminar, Michigan State University |
| 1998 | Member of the Mathematical Association of America |
| 1996– | Member of the American Mathematical Society |

## Courses Taught

The courses are listed by level from graduate school to remedial college level.

- **4-manifold Theory.** Topics course for graduate students. (LSU, Fall 2010)
- **Seiberg-Witten-Floer Theory.** Topics course for graduate students. (LSU, Spring 2010)
- **Pseudoholomorphic maps and Gromov-Witten invariants.** Topics course for graduate students. (LSU, Math 7590, Fall 2007)
- **Seiberg-Witten Theory.** Topics course for graduate students. (IU, Math 624, Spring 2004)
- **Riemannian and Symplectic Geometry.** Introduction to Riemannian geometry: manifolds, metrics, Levi-Civita connections, and symplectic geometry. (LSU, Math 7590-2, Fall 2006)
- **Topology I.** Text: Munkres (graduate course). Basic notions of general topology, with emphasis on Euclidean and metric spaces, continuous and differentiable functions, inverse function theorem and its consequences. (LSU, Math 7510, Fall 2005, Fall 2009)
- Complex Variables. Text: Brown and Chruchill, *Complex Variables and Applications.* (LSU, Math 4036, Fall 2010)
- Geometry. Text: S. Baldridge and T. Parker, *Elementary Geometry for Teachers*; Supervised two GAANN fellows. (LSU, Math 4005)
- Step II Course for Teachers. (LSU, Math 3002).

- Step I Course for Teachers. (LSU, Math 3001).
- Ordinary Differential Equations. Text: Adkins and Davidson, *Ordinary Differential Equations*. (LSU, Math 2065, Fall 2011)
- Calculus III. Text: Thomas and Finney, *Calculus, part II, 9th ed*. Supervised one teaching assistant. (MSU, Math 234)
- Calculus I. Text: Stewart, *Early Transcendentals*. Supervised teaching assistants. (IU, Math 211)
- Elementary Measurement and Geometry. Text: Euclid, *Book I*; E. E. Moise and F. L. Downs, *Geometry*; *Singapore*, Grades 3-7. (MSU, Math 202)
- Elementary Arithmetic and Algebra. Text: T. H. Parker and S. J. Baldridge, *Elementary Mathematics for Teachers*; *Singapore*, Grades 3-6. Supervised teaching assistants. (MSU and IU, Math 201 and Math T101)
- Survey of Calculus with Applications. Text: Gleason, Hughes-Hallet, et. al., *Applied Calculus for Business, Social Science, and Life Sciences*. (MSU, Math 124)
- College Algebra. Text: Larson, Hostetler, and Edwards, *College Algebra*. Worked in a special program for disadvantaged and under-prepared students (Enrichment Program). Supervised teaching assistants. (MSU, Math 103)
- Intermediate Algebra. Text: Phillips, Butts, and Shaughnessy, *Intermediate Algebra, 2nd Edition*. Enrichment Program. Supervised teaching assistants. (MSU, Math 1825)

## Media Coverage, News Releases, Government Reports

I was quoted, my mathematical research was highlighted, or my work in education was discussed in the following newspapers, magazines, or government reports:

1. Anne Pfaelzer de Ortiz, *Common Core Mathematics Comes to Delaware*, i-Newswire, August 2, 2012.
2. Hillary Marder, *Common Core to Create New York State's Recommended PK-12 Mathematics Curriculum*, Common Core, July 18, 2012.
3. Jason Koebler, *Experts: STEM Education is all about jobs*, U.S. News and World Report, September 27, 2011.
4. The National Press Club, *'Cool' experts to discuss how to get students exited about STEM education*, September 27, 2011.
5. Rena Pederson, *Tom Luce to be featured speaker at U.S. News and World Report summit*, National Math+Science Initiative, September 2, 2011.
6. Danielle Arndt, *Hall of Fame inductees 'represent what's possible'*, Rockford Independent, October 10, 2010.

7. Ron Cammel, *Busy weekend planned for first inductees of Rockford Public Schools' Hall of Fame*, Grand Rapids Press, September 28, 2010.

8. NBC's Education Week: a nationally televised conference on education, September 22-23, 2010. Panel discussions and speeches televised on NBC, CNBC, MSNBC, and NBC's websites.

9. Faiza Elmasry, *Singapore Math Adds Up for US Teachers*, Voice of America, August 10, 2010. http://www.voanews.com/english/news/usa/Singapore-Math-Adds-Up-for-US-Teachers-100338189.html

10. Danielle Arndt, *Hall of Fame inductees announced*, Rockford Independent, August 10, 2010.

11. Satellite Media Tour: I did several local, national, and international television and radio interviews about elementary mathematics curricula in the U.S. Sample of locations: Miami (2 interviews), Phoenix, Los Angeles, Seattle, Atlanta, Waco and networks: Fox Business Network, etc., June 23, 2010.

12. John Fensterwald, *Common-core standards under fire*, The Educated Guess, January 17th, 2010.

13. Patricia Clark Kenschaft, *Is Elementary Education a Concern of MAA Members?*, MAA Focus, p. 23-24, August/September 2009.

14. Ashley Berthelot, *NSF grants LSU $5 million to develop Louisiana math and science teacher institute*, Louisiana State University, September 4, 2009.

15. Chante' Warren, *Math Retreat*, The Baton Rouge Advocate, June 27, 2009, page 4B.

16. Beth Courtney and Craig Freeman, *Louisiana Public Square: Legislative Review 2009*, Louisiana Public Broadcasting, Aired June 24, 2009 (7:00p.m.). I was part of a panel discussion on television to discuss the 2009 Louisiana State Budget. My goal was to point out that LSU's budget was already lean and cutting it further would hurt the core missions of Louisiana's flagship university.

17. Andy Magid (editor), et. al., *Mathematics People*, Notices of the American Mathematical Society, Vol. 56, No. 2, p. 268-271, 2009.

18. Andy Magid (editor), et. al., *Biographies of Candidates 2008*, Notices of the American Mathematical Society, Vol. 55, No. 8, p. 1002–1013, September 2008.

19. Julie Greenberg and Kate Walsh, *No Common Denominator: The Preparation of Elementary Teachers in Mathematics by America's Education Schools*, National Council on Teacher Quality, June 2008. Visit http://www.nctq.org:80/p/publications/reports.jsp.

20. Brenda Macon, *Assistant Professor Scott Baldridge Receives NSF CAREER Award*, Kaleidoscope, **4** (2), Spring, 2008.

21. John Colvin, *Baker School Board updated on math program, gets audit*, The Advocate, Published Jan. 30, 2008.

22. Singaporemath.com, *California Teachers Get Approval From Board of Education for State Funds to Use 'Standards Edition' of Math Textbooks Originally Developed by Singapore's Ministry of Education, Used by No. 1-Ranked Students and Distributed by SingaporeMath.com Inc.*, Marketwire, November 7, 2007.

23. John Hoven and Barry Garelick, *Singapore Math: Simple or Complex?*, Educational Leadership, **65** (3), November, 2007.

24. Massachusetts Department of Education, *Guidelines for the Mathematical Preparation of Elementary Teachers*, www.doe.mass.edu/mtel, 2007.

25. Barry Garelick, *A tale of two countries and one school district*, Third Education Group Review/Essay **2** (8), 2006.

26. Barry Garelick, *Miracle Math*, Education Next, No. 4, September 2006. (Currently the most viewed article at Education Next.)

27. Mark Hoover Thames, *Using math to teach math*, Critical Issues in Mathematics Education Series, Volume 2, Mathematical Sciences Research Institute, Berkeley, CA, 2006.

28. Raven McCrory, *Mathematicians and Mathematics Textbooks for Prospective Elementary Teachers*, Notices of the American Mathematical Society, Vol. 53, No. 1, p. 20-29, January 2006.

29. News Brief, *Teaching Katrina's kids*, The Baton Rouge Advocate, September 8, 2005.

30. Gerald & Natalie Sirkin, *Singapore Math vs. Mediocrity*, The Valley Patriot, August, 2005.

31. Australian Mathematical Sciences Institute, *Submission to House of Representatives Standing Committee on Education and Vocational Training Inquiry into Teacher Education*, (2005).

32. Hung-Hsi Wu, *Must Content Dictate Pedagogy in Mathematics Education?*, Forthcoming, May 2005.

33. Cris Prystay, *As math skills slip, U.S. schools seek answers from Asia*, Wall Street Journal, December 13, 2004.

    This article also ran in San Francisco Chronicle on the same day.

34. Ho Ai Li, *US teachers get lessons on S'pore maths*, The Straits Times, December 28, 2004.

    The Strait Times is the major newspaper in Singapore.

35. W.G. McCallum, *Promoting Work on Education in Mathematics Departments*, Notices of the American Mathematical Society, p. 1096, October 2003.

## Other Interests

*Physics:* I am interested in supersymmetry and how it relates to Seiberg-Witten theory. I audited the following courses at Michigan State University: PHY 820 Classical Mechanics, PHY 851-2 Quantum Mechanics I & II, AST 860B Gravitational Astrophysics, PHY 853 Advanced Quantum Mechanics, PHY 854 Quantum Electrodynamics.

*Programming Languages:* Java (limited), Mathematica, Maple, C, C++, Pascal, BASIC (all forms), COBOL, FORTRAN, ObjectPAL and PAL, Nomad2.

*Hobbies:* Running (PR's: 16:23 minutes in 5 km, 1:59 minutes in $\frac{1}{2}$ mile), playing guitar, backpacking, restoring antique sports cars.

## References

Ronald Fintushel, Michigan State University
Roger Howe, Yale University, (on education)
Paul Kirk, Indiana University
Peter Ozsváth, Princeton University
Clifford Taubes, Harvard University