Shawn J. A. Chiappetta

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| **Contact** | Natural Sciences Area |  | Voice: (605) 575-2081 |
| **Information** | University of Sioux Falls |  | Fax: (605) 331-6615 |
|  | 1101 West 22nd Street |  | E-mail: shawn.chiappetta@usiouxfalls.edu |
|  | Sioux Falls, SD 57106 |  |  |

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| **Education** | University of Wisconsin – Milwaukee, Milwaukee, WisconsinPh.D., Mathematical Sciences, May 2009* Dissertation Title: Non-Overlapping Domain Decomposition Parallel Algorithms for Convection-Diffusion Problems
* Advisor: Dr. Bruce A. Wade
* Area of Study: Parallel Numerical Algorithms
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|  | Southern Illinois University – Carbondale, Carbondale, IllinoisM.S., Mathematics, May 1998* Research Paper Title: Operators on the Hilbert Space L2[a,b]
* Advisor: Dr. Ronald Grimmer
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|  | Carthage College, Kenosha, WisconsinB.A., Mathematics and Accounting, May 1996 |

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| **Teaching****History** | Associate Professor of Mathematics – University of Sioux Falls,Sioux Falls, South Dakota. Fall 2009-presentAssistant Professor of Mathematics – University of Sioux Falls,Sioux Falls, South Dakota. Fall 2003-Spring 2009 |
|  | Visiting Assistant Professor of Mathematics – Carthage College,Kenosha, Wisconsin. Academic Year 2002-2003Taught:* Applied Mathematics (liberal arts math course)
* Principles of Modern Mathematics (for teacher certification)
* Functions, Graphs, and Analysis (pre-calculus)
 |
|  | Adjunct Instructor of Mathematics – Carthage College,Kenosha, Wisconsin. Spring 1999-May 2002 |
|  | Graduate Teaching Assistant – University of Wisconsin – Milwaukee,Milwaukee, Wisconsin. August 1998-May 2002Taught:* College Algebra
* Combined course of Algebra/Trigonometry and Calculus
 |
|  | Graduate Teaching Assistant – Southern Illinois University - Carbondale,Carbondale, Illinois. August 1996-May 1998Taught:* Trigonometry
* Finite Mathematics

Led Recitation Sessions:* Applied Mathematics (liberal arts math course)
* Calculus I
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| **Leadership and Service** | Information Officer/Webmaster, Mathematical Association of America/North Central Section, April 2007-present |
|  | Co-Chair, North Central Section NExT, Mathematical Association of America/North Central Section, April 2008-present |
|  | Application Committee, Mathematical Association of America/North Central Section, October 2006-present |
|  | Co-Organizer, Math on the Northern Plains Conference, University of SiouxFalls, Sioux Falls, South Dakota, April 2006 |
|  | Coordinator, Mathematical Association of America/North Central SectionFall Section Meeting, University of Sioux Falls, Sioux Falls, SD, October 2003, October 2010 |
|  |  Assessment Committee member, University of Sioux Falls, Sioux Falls, SD,Fall 2008-Fall 2010* Chair, August 2008-August 2010
 |
|  | Committee on Liberal Arts Education, University of Sioux Falls, Sioux Falls, SD, Spring 2004-Spring 2008* Chair, August 2005- August 2007

Faculty Development Committee, University of Sioux Falls, Sioux Falls, SD,Fall 2010-present* Secretary, August 2010-August 2011
* Chair, August 2011-present
 |
|  | Vice-Chair, Faculty Association, University of Sioux Falls, Sioux Falls, SD, Fall 2011-presentDirector of USF Mathematics Tutoring Center, University of Sioux Falls,Sioux Falls, SD, August 2003-August 2008 |
|  | Academic Success Center ad-hoc Committee Member, University of Sioux Falls,Sioux Falls, SD, Fall 2006-Fall 2008 |
|  | USF Faculty Club Advisor, University of Sioux Falls, Sioux Falls, SD,Spring 2004-present* USF Math/CS Club, 2008-present
* USF Aviation Club, 2006-2008
* USF Chess Club, 2004-2006
 |
|  | Search Committees, 2005 (math), 2007(math and finance) |

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| **Research** | Numerical analysis, parallel algorithms, real analysis, mathematics education, |
| **Interests** | mathematics history, art and mathematics |

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| **Professional Presentations** | “Implementation of a Capstone Course in the Mathematical Sciences,” Presented at the MAA/NCS Project NExT Meeting, College of St. Benedict, Collegeville, MN, April 2008 |
|  | “Baby Steps: An Introduction to Mathematical Technology in the Classroom,” Presented at the MAA/NCS Project NExT Meeting, Bemidji State University, Bemidji, MN, October 2007 |
|  | Panelist, “Transition from Undergraduate to Graduate Study in Mathematics,”MAA/Wisconsin Section Meeting, April 2003 |

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| **Professional Activity** | Member, Sioux Falls School District, K-12 Math Steering Committee, Sioux Falls, SD, September 2011-presentFormal Reviewer, *Elementary Statistics: Looking at the Big Picture* Duxbury/Thomson) by Nancy Pfenning, University of Pittsburgh, 2010 |
|  | Workshop Participant, “Bioinformatics Workshop,” University of Sioux Falls,Sioux Falls, SD, August 2005 |
|  | Participant, Cell Group for Improved Teaching Methods, University of Sioux Falls,Sioux Falls, SD, Fall 2004-Spring 2006 |
|  | Participant, MAT390 – Philosophy of Mathematics, University of Sioux Falls,Sioux Falls, SD, Interim 2005 |
|  | Consultant, Education Area, University of Sioux Falls, Sioux Falls, SD* Submitted assessment report for recognition of Secondary Mathematics Education program at USF. Approved November 2008
* Attended SPA Training Activity in preparation for Mathematics Education program at USF for SD Board of Regents (Summer 2006)
* Created template for assessment of Mathematics Education program at USF for SD Board of Regents (Spring 2006)
* Coordinator of templates for PRAXIS II mathematics content exam under SD Teacher Quality Enhancement Grant, 2005
 |
|  | University Supervisor for Mathematics student teachers, University of Sioux Falls,Dell Rapids and Roosevelt High Schools, 2006, 2007 |
|  | National Fellow, Mathematical Association of America Project NExT (New Experiences in Teaching – A New Faculty Preparation Program), 2003 |

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| **Undergraduate Research** | *As a mentor*, I have directed several student research projects, including projects that led to the following presentations:“Energy Flow in an Ecosystem,” Roxie Truax, presented at Mathematics on the Northern Plains, April 2005.“Forest Management: Finding the Optimal Sustainable Yield,” presented at Mathematics on the Northern Plains, April 2005.“A Critique of the Leslie Matrix: A Method for Determining Population Growth,” presented at Mathematics on the Northern Plains, April 2005. |
|  | *As a student*, my undergraduate research led to the following:“Reach Out and Touch Someone: A Mathematical Look at Connectivity,” published in *Sine on the Dotted Line* (Undergraduate journal at Carthage College), 1994.“Mastermind: Breaking the Codes,” with Steven Gannaway, published in *Sine on the Dotted Line*, 1995. |

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| **Courses Taught** | MAT111 | Elementary Algebra |
| **at USF** | MAT112MAT113 | College Algebra and TrigonometryCollege Algebra |
|  | MAT113L | College Algebra (Recitation) |
|  | MAT114 | Functions |
|  | MAT151 | Nature of Mathematics |
|  | MAT202 | Finite Mathematics |
|  | MAT204 | Calculus I |
|  | MAT205MAT221 | Calculus IIMathematics for Elementary Teachers |
|  | MAT233 | Introduction to Statistics |
|  | MAT270 | Statistics and Mathematical Functions (DCP) |
|  | MAT283 | Mathematician’s Toolbox |
|  | MAT294 | Art, Math and Culture in Italy and Greece (course designed and implemented with Nancy Olive and Jason Douma) |
|  | MAT300 | Numerical Methods (course designed and implemented with Dennis Roark) |
|  | MAT304 | Linear Algebra |
|  | MAT310 | Calculus III |
|  | MAT311 | Differential Equations |
|  | MAT320 | Introduction to Real Analysis (course I designed and implemented) |
|  | MAT490 | Senior Seminar |
|  | NSC300 | Science Colloquium |
|  | ACC282 | Accounting for Decision Making (DCP) |
|  | BUS382 | Management Control Systems (DCP) |

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| **Other Curriculum Development** | Researched and implemented large-scale changes in the Mathematics major to alignwith other programs in our peer group, University of Sioux Falls, Sioux Falls, SD, 2005 |
|  | Authored and implemented *Mathematica* computer laboratories for the calculus curriculum, 2007 |
|  | Implemented the use of LaTeX typesetting in MAT283 – Mathematician’s Toolboxthat has matriculated into other courses and into MAT490 – Senior Seminar |

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| **Computer Skills** | Mathematics Software: *Mathematica*, *Maple*, Sage, Octave |
|  | Statistical Software: SPSS, Excel, Systat |
|  | Programming: Basic, Pascal, Fortran, C, C++, HTML, CSS, Python |
|  | Graphing Calculators: TI-83/84+, TI-89 |
|  | Technical Typesetting: LaTeX2e , Microsoft Equation Editor |

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| **Memberships** | Mathematical Association of America |
|  | Research in Undergraduate Mathematics Special Interest Group of the MAA |
|  | History of Mathematics Special Interest Group of the MAA (charter member) |
|  | Art in Mathematics Special Interest Group of the MAA (charter member) |
|  | Pi Mu Epsilon |

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| **Awards and Honors** | Outstanding Faculty of the Year Award, University of Sioux Falls, 2006National Mathematical Association of America Project NExT Fellow, 2003GAANN Fellow, 1998-2002 |