Curriculum Vitae: James P. Solazzo

Born May 25, 1969 in Oswego, New York
Citizenship: United States

Education

2000 Ph.D.	Mathematics	University of Houston
1996 M.S.	Mathematics	University of Houston
1991 B.S.	Mathematics	SUNY Stony Brook

Thesis Advisor: Vern I. Paulsen

Thesis: Interpolation and Computability

Employment

2009-	Associate Professor, Coastal Carolina University
2004-09	Assistant Professor, Coastal Carolina University
2001-04	NSF VIGRE Postdoctoral Associate, University of Georgia
2000-01	Visiting Assistant Professor, University of Georgia

Publications

- Complex Equiangular Frames and Erasures (with T. Hoffman), Linear Algebra and its Applications. [accepted January 2012].

- Equiangular Tight Frames and Fourth Root Seidel Matrices (with D. Duncan and T. Hoffman), Linear Algebra and its Applications, **432**(2010), 2816-2823.

- Numerical Measures for Two Graphs (with D. Duncan and T. Hoffman), Rocky Mountain Journal of Mathematics, **Volume 41, Number 1**(2011), 133-154.

- Interpolation and Balls in $\mathbb{C}^k$ (with V. Paulsen), Journal of Operator Theory, **60:2**(2008), 379-398.

- Reflexivity, Factorization, and Hankel Operators (with E. Azoff and R. Martinez), Acta Scientiarum Mathematicarum (Szeged), **73**(2007), 683-728.

- An Intrinsic Difficulty with Interpolation on the Bidisk, Journal of Operator Theory, **50**(2003), 249-261.

- A Uniqueness Result Concerning Schur Ideals, Proceedings of the American Mathematical Society, **130(5)**(2002), 1437-1445.

Professional Activities

Member 1996-Present	Mathematical Association of America (MAA)
Member 1996-2008	American Mathematical Society (AMS)
MAA Liason 2006-	CCU Mathematics/Statistics Department
Member 2012 - Present	MAA Sub-committee: Undergraduate Research in Mathematics
2001-	Refereeing duties for various journals

Grants

2010:
- CURM (Center for Undergraduate Research in Mathematics) mini-grant - \$ 16,250 (\$ 5,000 stipend for faculty, \$ 9,000 stipend for three students, \$ 2,000 travel, and \$ 250 supplies). CURM is fund by the National Science Foundation grant DMS-0636648 and by Brigham Young University.
- (**Not Funded**) National Science Foundation, Proposal No. 1101413, Title - Equiangular Tight Frames, Applications, and Undergraduate Research.

2008:
- (**Not Funded**) CURM mini-grant

2007:
- Coastal Carolina University, SOTL Grant, $1500 This project is investigating the benefits and draw backs of Math 160 (Calculus 1) being taught uniformly over four semesters.

2006:
- (**Not Funded**) National Science Foundation, Proposal No. 0648914, Research Experience for Undergraduates, Frames with Applications to Linear Coding and Graph Theory, Co-PI Dr. Jennifer Wightman.

2005:
- Coastal Carolina University, Academic Enhancement Proposal Writing Grant, \$ 2,500.

2004:
- Coastal Carolina University, Professional Enhancement Grant, \$ 2,355.

Conferences and Workshops - † indicates presentation

2012:
- Joint Mathematics Meeting of the American Mathematical Society and the Mathematical Association of America, Boston, MA, January 5-8.

2011:
- † Southeastern MAA Annual Meeting, University of Alabama, Title – You Say Independent, I Say Dependent, April 1-3.
- CURM (Center for Undergraduate Research in Mathematics) Conference, Brigham Young University, March 17-20.
- Joint Mathematics Meeting of the American Mathematical Society and the Mathematical Association of America, New Orleans, LA, January 6-9.

2010:
- CURM (Center for Undergraduate Research in Mathematics) Workshop, Brigham Young University, June 24-27.

- † Southeastern MAA Annual Meeting, Elon University, March – Title: Fourth Roots of Unity and Equiangular Frames.
- † Southeastern MAA Annual Meeting, Elon University, March – Title: Teaching Calculus Uniformly.
- † MAA South Carolina State Dinner, Coastal Carolina University – Title: Frames and Codes

2008:
- † Southeastern MAA Annual Meeting, The Citadel, March – Title: Frames and Equiangular Lines - 20 minute talk

2006:
- † Celebration of Inquiry, - Coastal Carolina University, joint presentation with Dr. Susan Webb and Dr. Jennifer Wightman, February

2005:
- AMS/MAA National Meeting, San Antonio, TX, January
- † Southeastern MAA Annual Meeting (joint with SIAM), College of Charleston/The Citadel, March – Title: Interpolation and Balls in Complex k-space - 20 minute talk
- Functional and Non-linear Analysis Workshop, Texas A& M University, August

2004:
- AMS/MAA National Meeting, Phoenix, AZ, January

2003:
- 23rd annual Great Plains Operator Symposium, University of Illinois, Urbana-Champaign, May
- † Young Analyst Meeting of the Southeast (YAMS), Furman University, South Carolina, July

2002:
- † 18th annual South Eastern Analysis Meeting, University of North Carolina, March
- † Operator Algebras Workshop, Fields Institute, Toronto, July
- † International Workshop of Operator Theory and Algebras, Virginia Tech, August

2001:
- 17th annual South Eastern Analysis Meeting, University of Georgia, March
- † YAMS, Furman University, South Carolina, July
- † Fourth SIAM Conference on Linear Algebra, Boston, August

2000:
- † AMS/MAA National Meeting, Washington D.C., January

1999:
- † YAMS, Furman University, South Carolina, July

Student Conferences and Presentations

2011:
- January 2011 - The Joint Mathematical Meeting of the American Mathematical Society and the Mathematical Association of America - Note: this is the biggest conference in mathematics. Kyle Rollins participated in the undergraduate poster session in which close to 300 undergraduates participated in from all over the nation.

- **Presenter:** Kyle Rollins,
  Title: Constructing Equiangular Lines with Applications to Coding Theory

- March 2011 - BYU hosts the annual CURM conference which is funded by BYU and the NSF. This conference is much smaller but focuses specifically on undergraduate research in mathematics, and has keynote speakers specifically hand picked to encourage undergraduates to continue studying mathematics. Kyle Rollins, Marlene Gonzalez, and Taylor Baldwin all gave 15 minute presentations at this meeting.

  - **Presenter:** Kyle Rollins,
    Title: Equiangular Frames and the Lost Package Problem

  - **Presenters:** Taylor Baldwin and Marlene Gonzalez,
    Title: Investigating the Construction and Use of Linear Codes in Binary Symmetric Channels

Seminar/Colloquium Talks - † indicates invited

2011:
- † University of Georgia - VIGRE seminar, April
  Title: One Frame, Two Frame, Red Frame, Blue Frame
- † Virgina Common Wealth University - Analysis Seminar, April
  Title: Frame on You!
- † The Citadel - Colloquium, February
  Title: You Say Independent, I say Dependent
- CCU Math 190 - Freshman Math Seminar, February and April

2009:
- CCU Math 190 - Freshmen Math Seminar, March

2008:
- CCU mathematics seminar, February
- † University of Georgia - VIGRE seminar, November

2006:
- series of 8 lectures on frame theory presented to Dr. Ephrem and Dr. Wightman
- CCU mathematics seminar, February

2005:
- CCU mathematics seminar, February

2004:
- CCU mathematics seminar, September
- CCU mathematics seminar, October

2003:
- VIGRE Seminar, University of Georgia, January
- Geometry Seminar, University of Georgia, April
- Analysis Seminar, University of Georgia, October
- Analysis Seminar, University of Tennessee, October

2002:
- Analysis Seminar, University of Georgia, September

2001:   - Analysis Seminar, University of Georgia, March

             - VIGRE Seminar, University of Georgia, October

2000:   - Analysis Seminar, University of Houston, April

             - Analysis Seminar, University of Georgia, September

             - Analysis Seminar, Virginia Tech, October

Departmental and University Services

Coastal Carolina University:

2011-12:
- Chair of Academic Affairs.
- College of Science Promotion and Tenure Committee.
- Responsible for recruiting, hiring and supervising graders for Math 131, Math 160, Math 161, and Math 260.
- Served on the Department of Mathematics Student Retention and Recruitment Committee.

2010-11:
- Chair of Academic Affairs.
- Chair of the College of Science Promotion and Tenure Committee (Chair only in the fall).
- Coordinator for Math 160 (Calculus 1).
- Responsible for recruiting, hiring and supervising graders for Math 131, Math 160, Math 161, and Math 260.
- Served on the Department of Mathematics Student Retention and Recruitment Committee.

2009-10:
- Served on CCU Faculty Senate.
- Served on Academic Affairs.
- Served on CNAS Promotion and Tenure Committee.
- Served on the search committee for the assistant professor search in Recreation and Sport Management.
- Coordinator for Math 160 (Calculus 1).
- Responsible for recruiting, hiring and supervising graders for Math 131, Math 160, Math 161, and Math 260.
- Served on the Department of Mathematics Student Retention and Recruitment Committee.
- Served as judge for two sessions of Celebration of Inquiry.

2008-09:
- Served on CCU Faculty Senate.
- Served on the search committee for the assistant professor search in Recreation and Sport Management.
- Coordinator for Math 160 (Calculus 1).
- Responsible for recruiting, hiring and supervising graders for Math 131, Math 160, Math 161, and Math 260.

2007-08:   - Served on CCU Faculty Senate.

- Served on the search committee for three assistant professors in the CCU Math/Stats Department.

- Organizer of the CCU mathematics seminar.

- Coordinator for Math 160 (Calculus 1).

- Responsible for recruiting, hiring and supervising graders for Math 131, Math 160, Math 161, and Math 260.

2006-07:   - Served on CCU Faculty Senate.

- Served on the CCU adhoc core curriculum committee.

- Served on the search committee for four assistant professors in the CCU Math/Stats Department.

- Organizer of the CCU mathematics seminar.

- Coordinator for Math 160 (Calculus 1).

- Responsible for recruiting, hiring and supervising graders for Math 160.

2005-06:   - Served on CCU Faculty Senate.

- Served on the search committee for Chair of the CCU Math/Stats Department.

- Organizer of the CCU mathematics seminar.

- Served on the search committee for the CCU Chemistry Department.

2004-05:   - Served on CCU Faculty Senate.

- Served on the search committee for Chair of the CCU Math/Stats Department.

- Organized and initiated the CCU mathematics seminar.

- Served on the mathematics placement test committee.

- Served on curriculum committee (CCU Math/Stats Department).

University of Georgia:

2003:   - Served on the committee for the Hollingsworth award.

- Served as a judge for the annual Georgia State High School Science Fair.

2002:   - Served as a judge for the annual Georgia State High School Science Fair.

2001:   - Organized the Analysis Seminar at the University of Georgia.

- Co-organized the 17th annual South Eastern Analysis Meeting.

- Served as a judge for the annual Georgia State High School Science Fair.

2000:   - Organized the Analysis Seminar at the University of Georgia.

Teaching Experience, Courses Taught
Coastal Carolina University:

2011-12:   - Math 131, Trigonometry
            - Math 161, Calculus II, 2 sections
            - Math 329, Financial Mathematics
            - Math 407, Coding Theory
            - Math 490, Senior Seminar

2010-11:   - Math 159, Calculus Calisthenics
            - Math 160, Calculus I, 2 sections
            - Math 260, Calculus III
            - Math 329, Financial Mathematics

2009-10:   - Math 159, Calculus Calisthenics, 2 sections
            - Math 160, Calculus I, 3 sections
            - Math 344, Linear Algebra
            - Math 407, Coding Theory

2008-09:   - Math 131, Trigonometry, 2 sections
            - Math 160, Calculus I, 3 sections
            - Math 320, Differential Equations
            - Math 344, Linear Algebra

2007-08:   - Math 131, Trigonometry, 3 sections
            - Math 160, Calculus I, 3 sections
            - Math 220, Introduction to Mathematical Proofs

2006-07:   - Math 160, Calculus I, 4 sections
            - Math 344, Linear Algebra
            - Math 407, Linear Coding
            - UNIV 110, Introduction to College
            - Math 131, Trigonometry

2005-06:   - Math 160, Calculus I, 3 sections
            - Math 220, Introduction to Mathematical Proofs, 2 sections
            - SSSC 195, Science Success Seminar
            - Math 161, Calculus II

2004-05:   - Math 160, Calculus I, 4 sections
            - Math 135, Precalculus
            - Math 344, Linear Algebra

- Math 131, Trigonometry

University of Georgia:

2003-04: - Math 3000, Linear Algebra
- Math 4110, Measure Theory

2002-03: - Math 8170, Functional Analysis, Graduate course
- Math 4150, Complex Analysis

2001-02: - Math 3100, Sequences and Series
- Math 3200, Introduction to Higher Mathematics

2000-01: - Math 2100, Calculus I
- Math 1110, Mathematical Modeling

University of Houston:

99-2000: - Math 1310, College Algebra, 2 sections (1 class of 225 students)
- Math 1314, Business Calculus, 1 section of 150 students
- Math3336, Discrete Mathematics

1998-99: - Math 1310, College Algebra, 4 sections (2 class of 225 students)

1997-98: - Math 1313, Finite Mathematics, 2 sections (1 class of 150 students)
- Math 1314, Business Calculus, 2 sections (1 class of 150 students)

1996-97: - Math 1330, Precalculus
- Math 1310, College Algebra, 2 sections (1 class of 150 students)
- Math 1313, Finite Mathematics, 3 sections (1 class of 150 students)

1995-96: - Math 1431, Calculus I, (teaching assistant)
- Math 2303, Math for Elementary School Teachers, 4 sections

1994-95: - Math 1431, Calculus I, 2 sections (teaching assistant)
- Math 1432, Calculus II, 2 sections (teaching assistant)

SUNY Stony Brook:

1989-91: - Math 130, Calculus I, (teaching assistant)