Catherine Bénéteau

Education

| 1993-1999 | University at Albany (SUNY) | Ph.D. | Mathematics |
| 1991-1993 | McGill University | | |

Associate Professor at the University of South Florida, 2010 – 2017.
- **Assistant Professor** at the University of South Florida, 2006 – 2010.
- **Associate Professor** at Seton Hall University, 2005 – 2006.
- **Assistant Professor** at Seton Hall University, 1999-2005.
- **Instructor** at the Center for Talented Youth in Lancaster, PA (Summer 1999).
- **Instructor/Graduate Assistant** at the University at Albany (1993-1999).
- **Instructor/Graduate Assistant** at McGill University (1991-1993).

Publications

Mathematics Research Articles

1. *A Natural Extension of a Nonsingular Endomorphism of a Measure Space*, C. Bénéteau, Rocky Mountain Journal of Mathematics, **26** (1996), 1261-1273.

2. *Jensen Type Inequalities and Radial Null Sets*, C. Bénéteau and B. Korenblum, Analysis, **21** (2001), 99-105.

3. *Some Coefficient Estimates for H^p Functions*, C. Bénéteau and B. Korenblum, Complex Ana -19. 5. Extremal problems for non-vanishing functions in Bergman spaces, D. Aharonov, C. Bénéteau, D. Khavinson, and H. S. Shapiro, *Operator Theory: Advances and Applications,* **158** (2005),59-86.

6. *The Isoperimetric Inequality via Approximation Theory and Free Boundary Problems,* C. Bénéteau and D. Khavinson, Computational Methods and Function Theory **6** (2006), No. 2, 253-274.

7. *A survey of certain extremal problems for non-vanishing analytic functions*, C. Bénéteau and D. Khavinson, Complex and Harmonic Analysis, DES Tech Publications (2007), 45-61.

8. *Extremal Problems in the Fock Space,* C. Bénéteau, B. Carswell, and S. Kouchekian,

Computational Methods and Function Theory, *Comput. Methods Funct. Theory* **10** (2010), no. 1, 189-206.

9. *A Survey of Linear Extremal Problems in Analytic Function Spaces,* C. Bénéteau and D. Khavinson, Complex Analysis and Potential Theory, CRM Proc. Lecture Notes **55** (2012), 33-46.

10. *Selected Problems in Classical Function Theory,* C. Bénéteau and D. Khavinson, Centre de Recherches Mathematiques, CRM Proceedings and Lecture Notes, Contemp. Math. 638 (2015), 255-265.

11. *Cyclicity in Dirichlet-type Spaces and Extremal Polynomials,* C. Bénéteau, A. Condori, C. Liaw, D. Seco, and A. Sola, J. Anal. Math. 126 (2015), 259-286.

12. *Cyclicity in Dirichlet-type Spaces and Extremal Polynomials II: Functions on the Bidisk,* C. Bénéteau, A. Condori, C. Liaw, D. Seco, and A. Sola, *Pacific J. Math. 276 (2015), no. 1, 35-58.*

13. *Cyclic Polynomials in two variables,* C. Bénétea

16. **Association for Women in Mathematics and National Science Foundation Travel Grant**, $1200, for travel expenses to participate in the "Tag der Funktionen4.1 (el)3.26ce F5A.4 6c 0 T1.5( )Tj /TT1 1 Tc 0

™ Served on a career advice panel for graduate students and postdocs at Washington University in St Louis, May 2005.

™ *Extremal problems for non-vanishing functions in Bergman space,* Southeastern Analysis Meeting, April 2005.

™ *Extremal problems in Hardy and Bergman spaces,* University of Arkansas, March 2005.

™ *Anything still to be discovered about power series? The Bohr phenomenon!* Bucknell University, September 2004.

™ *The Bohr Phenomenon and Extremal Problems in Hardy Spaces,* Complex Function Theory Days, Bar-Ilan University, Israel, June 2004.

™ *Extremal Problems in Hardy and Bergman Spaces,* First Joint International Meeting of the AMS RSME, Seville, Spain, June 2003.   *Ex phenomenon!*

programming (via Mathematica) as a problem solving tool.

- Created, with a team of teachers from Hillsborough County and university faculty from the University of South Florida, a professional development course on "number sense" for elementary school teachers (through Project A.C.E.).
- At the University at Albany, designed course Maple laboratory manual to incorporate the use of Maple in the classroom.
- Created a statistics course at Seton Hall University for social science majors, integrating a daily use of SPSS software in the classroom. This course is now the primary statistics .3 (oom)-2 dq1ry25d [(at)-1.145 Td-8.1 (t)-1.1 (i)3.2 (c)-8.1 (s)-.3 (eat)-TeJ2oo78kryv (s)-.3 (eat)-TeJ2oo78 sr (hrf)Ch(P F)-5.3 ((c45 Td-.3 J   0 T9.96 -0-a:li)3)3.12oo78kr[(E-6.3 (ng3.1 17n ee Tw 0 -1.145 Tdng2 (v)

16. *Student Paper Session,* Undergraduate Research Conference, Rutgers University, March 27, 2004.

    Referee for the journals: *Complex Analysis and Operator Theory, Complex Variables and Elliptic*

Professional Memberships

I am a member of CITRUS (Center for the Improvement of Teaching & Research in Undergraduate STEM Education) at the University of South Florida, the American Mathematical Society, the Association for Women in Mathematics, the Mathematical Association of America, the National Council of Teachers of Mathematics, and PKAL (Project Kaleidoscope). I have been a Project NExT (New Experiences in Teaching) fellow since 1999.