Curriculum Vitae

Gregory L. McColm 12202 N. 53rd Str., Temple Terrace, FL 33617

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Department of Mathematics & Statistics
University of South Florida
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Tampa, FL 33620
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13 February 2022

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Associate Professor of Mathematics, USF-Tampa

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University of California at Los Angeles

Ph.D. awarded in Fall, 1986 M.A. awarded in Spring, 1982

Field: Mathematical Logic

Specialty: Abstract Recursion and Descriptive Complexity

Dissertation Advisor: Yiannis N. Moschovakis

Dissertation: $p \leftrightarrow n$, $u \leftrightarrow n$ out $ur \leftarrow F$, onto

Oberlin College

B.A. awarded in Spring, 1980

Major: Mathematics

 \mathbf{F}_{\bullet} / \mathbf{s}

Mathematical Logic & Theoretical Computer Science:

Finite Model Theory

Computational and Descriptive Complexity Theory

Combinatorics:

Combinatorial (& Logical) Game Theory

Finite and Infinite Ramsey Theory and Extremal Graph Theory

Random Graph Theory, and Probabilistic Methods and Random Processes

Geometry:

Polyhedral / Combinatorial Geometry, Tilings, Tessellations and Theoretical Crystallography

Computational Geometry and Computer Implementations Mathematics Education and Mathematical Philosophy

Annotat ons

Knowledge of the computer languages C, ForTran, LisP, Maple, Pascal and Python and of the markup language HTML

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USF-Tampa

Associate Professor of Mathematics, Acad. Yrs. 1992-

Assistant Professor of Mathematics, Acad. Yrs. 1986-1992

A tvt.s

Member, American Chemical Society

Member, American Association of University Professors

Member, American Mathematical Society

Member, Association for Computing Machines

Associate Member, International Union of Crystallography

Member, Mathematical Association of America

Member, Society for Industrial and Applied Mathematics

Cours s, au . t

- o r, on Basic Statistics, Calculus I, Calculus II, Calculus III, College Algebra, College Trigonometry, Elementary Calculus II, Engineering Calculus II, Finite Mathematics, Precalculus Trigonometry.
- pp r, on Bridge to Abstract Mathematics, Di erential Equations, Discrete Mathematics, Early History of Mathematics, Elementary Abstract Algebra I, Elementary Abstract Algebra II, Elementary Number Theory, Introduction to Probability, Modern Geometry, Problem Solving using Pascal or C, Set Theory, Symbolic Computations in Mathematics, and Vector Calculus.
- Gir, int
 Advanced Linear Algebra, Combinatorics I, LISP: programming with Algebraic Applications, Mathematical Logic and Foundations I, Mathematical Logic and Foundations II, Probability Theory I, Probability Theory II, Theory of Computing, and special topics courses on set theoretic forcing, computational complexity, and geometry, and Teaching College Mathematics, and independent study in category theory, mathematical crystallography, and mathematical logic.

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                  (with E. Grädel)
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                  In Co p (1995), 201–220.
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                  (with E. Grädel)
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                 D_s r t = at - at_s s (2004), 147–170.
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               n \bullet B \cdot t \quad nn \twoheadleftarrow r \blacktriangleleft r
                  (with k.-D. Hou)
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                  (with N. Jonoska)
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         n , to , o , tr , or , or
                  (with Ana Staninska and Natasha Jonoska)
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865th Meeting of the AMS
   Tampa, FL; March, 1991.
    Gr \rightarrow t \not Brr r o Co put r . n
   16th MAA Florida Suncoast Meeting
   St. Petersburg, FL; December, 1991.
G_{p} ^{+} \circ ^{-} \hookrightarrow n \circ \hookrightarrow p
   23rd Southeastern International Conference on Combinatorics, Graph Theory,
        Computing
   Boca Raton, FL; February, 1992.
A out \not\equiv prt t on r \Rightarrow t on on n n t po \triangleleft t \triangleleft
   872nd Meeting of the AMS
   Tuscaloosa, AL; March, 1992.
        \rightarrow n n o \rightarrow qu r \bullet
   NSF-INRIA Workshop on Databases and Finite Model Theory
   San Diego, CA; June, 1992.
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   Dagstuhl-Seminar 9323 on Semantics of Programming Languages and Algebra
  ▶ Dagstuhl, Germany; June, 1993.
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   18th MAA Florida Suncoast Meeting
   Venice, FL; December, 1993.
Grant rut
   19th MAA Florida Suncoast Meeting
   St. Petersburg, FL; December, 1994
  rro. Fun ton.
   26th Southeastern International Conference on Combinatorics, Graph Theory,
        Computing
   Boca Raton, FL; March, 1995.
                       → r o, Fun t on •
   7th Conference on Random Structures and Algorithms (RANDOM'95)
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32nd Annual Meeting of the Suncoast Region of the Florida Section of the Mathematics Association of America

St. Petersburg, FL, December 2007

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Pi Mu Epsilon Induction Banquet Jacksonville, FL, April 2008

Polk State College, Lakeland, Florida, April 2012

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37th Annual Meeting of the Suncoast Region of the Florida Section of the Mathematics Association of America

State College of Florida, Bradenton, Florida, December 2012.

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Special Session on Geometry, 38th Annual Meeting of the Suncoast Region of the Florida Section of the Mathematics Association of America

Hillsborough Community College - SouthShore Campus, Ruskin, Florida, December 2013.

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Plenary Session, 38th Annual Meeting of the Suncoast Region of the Florida Section of the Mathematics Association of America

Hillsborough Community College - SouthShore Campus, Ruskin, Florida, December

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Special Session on Discrete Geometry in Crystallography, 1,098th Meeting of the **American Mathematical Society**

University of Maryland - Baltimore County, Baltimore, Maryland, March 2014.

 $Cr \Leftrightarrow r$, t on f on t on t Group f An $App \Rightarrow t$ on f Group f or 23rd Congress and General Assembly of the International Union of Crystallography Montreal, Canada, August 2014.

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39th Annual Meeting of the Suncoast Region of the Florida Section of the Mathematics Association of America

University of South Florida - Sarasota / Manatee, Sarasota, Florida, December 2014.

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Joint Annual Meeting of the Mathematical Association of America (Florida Section) and the Florida Two-Year College Mathematical Association

Eckerd College, St. Petersburg, Florida, January 2015

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Henry C Hartje, Jr. Lecture

Florida Southern College, Lakeland, Florida, April 2015.

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40th Annual Meeting of the Suncoast Region of the Florida Section of the Mathematics Association of America

Florida Polytechnic University, Florida, December 2015.

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Joint Annual Meeting of the Mathematical Association of America (Florida Section) and the Florida Two-Y

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AA - v ws (2017), https://www.maa.org/press/maa-reviews/starry-reckoning-reference-and-analysis-in-mathematics-and-cosmology

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Department Graduate Program Director 1993-95

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• Ana Staninska, jointly directed with Natasha Jonoska, 2007

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• Deborah Nelson, 2000

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• Joy D'Andrea, 2011

• Lindsay Fields, 2018

• Daviel Leyva, 2019

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Minisymposium on Crystal Design using Discrete Structures in Geometry Philadelphia, PA; May, 2010

Special session co-organizer

1079th Meeting of the American Mathematical Society Special Session on Modeling Crystalline and Quasi-Crystalline Materials Tampa, FL; March, 2012

Minisymposium co-organizer

SIAM Mathematical Aspects of Materials Science Meeting Minisymposia on Mathematical Crystallography I, II, and III Philadelphia, PA; May, 2013

Special Issue Co-Editor

Acta Crystallographica A Virtual Issue on Mathematical Crystallography Articles in Volume 70, Numbers 2, 3, 4

Minisymposium co-organizer

SIAM Mathematical Aspects of Materials Science Meeting Minisymposia on Mathematical Crystallography I, II, III, and IV Philadelphia, PA; May, 2016

Special session co-organizer

1152nd Meeting of the American Mathematical Society Special Session on Crystalline and Highly Symmetric Structures Gainesville, FL; November, 2019

University of South Florida; service through the years:

Regular Committ28784 J T M)-0.367(28784 J T M)-0.367()-0.765802(t)--0.765802(t(t)5(i)-07c26

Various textbook committees

Academic Community; service through the years:

- Administrator, International Union of Crystallography weblog $Cr \Leftrightarrow f \Leftrightarrow t$ $\Rightarrow n$ at http://blogs.iucr.net/crystalmath/, 2012 present
- Consultant, International Union of Crystallography $Co^{-\frac{1}{r}} * * * on \ on \ * * * t * * on \ on \ * or \ t * * Cr * * o * * p \ , 2013 2014$
- Member, International Union of Crystallography Co $t^* \Leftrightarrow on \ on$ $t^* \Leftrightarrow t^* \Leftrightarrow n$ $or \ t^* \Leftrightarrow Cr \Leftrightarrow o \Leftrightarrow p$, 2014 present

United faculty of Florida; service through the years:

- Member, FEA Delegate Assembly
- Member, UFF Senate
- Secretary, UFF/USF Chapter
- Publicity Chair, UFF/USF Chapter
 (Editor, no integral of the one of the