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**I. GENERAL INFORMATION**

NAME: **Jamal Teymouri**

NUMBER OF YEARS OF FULL TIME SERVICE AT SAINT ROSE: 26

DATE OF FIRST FULL TIME EMPLOYMENT: **July 1990**

CURRENT POSITION: **Associate Professor of Mathematics**

**II. EDUCATIONAL AND PROFESSIONAL EXPERIENCES**

Ph.D. (Mathematics) 1988 State University of New York at Albany (S.U.N.Y.A)

Dissertation Title: Solutions to the Word and Conjugacy Problems in Semigroups Satisfying Small Cancellation,

Dissertation Adviser: Dr. Richard Goldstein

MS (Mathematics) 1985 State University of New York at Albany

BS (Mathematics) 1983 State University of New York at Albany

**AREAS OF SPECIALIZATION:**

Algebraic Topology, Combinatorial Group Theory, Complex Analysis, Linear programming and Game Theory, Actuarial Science.

**PROFESSIONAL SOCIETIES:**

American Mathematical Society

The American Mathematical Monthly

The Semigroup Forum Society by Springer-Verlag

**COURSES TAUGHT:**

 **The College of Saint Rose:**

Linear Programming and Game Theory, Linear Algebra, Basic Analysis, ComplexAnalysis, Three semesters Calculus courses, Differential Equation, Numerical Analysis, Abstract Algebra, Basic Statistics, Finite Mathematics, Foundations of math and Actuarial Science.

**State University Of New York At Albany:**

Survey of Calculus, College Algebra, Calculus I, II, III, Linear Algebra, Linear Programming and Game Theory, Statistics, Partial Differential Equation.

**PUBLICATIONS:**

Textbook: College Algebra, Introduction to Mathematical Thinking, Ginn Press/ Prentice Hall, November 1992.

Book: Geometric Methods in Group Theory, Pan Pacific Publishing Company,

August 1993.

Papers:Adyan’s Theorem and Conjugacy in Semigroup. R. Goldstein. J. Teymouri:SemigroupForum Vol. **47** (1993) 299-304, Springer Verlag.

Textbook: C. Manicci, P. Cummings, J. Teymouri: Selected Topics in Trigonometry, Pan Pacific Publishing Company, September 1994.

Textbook: Actuarial Science, Course 100 Examination, Pan Pacific Publishing Company, January 1994.

Textbook:J. Teymouri, P. Cummings: Algebra and Trigonometry, Pan Pacific Publishing Company, January 1995.

Papers:Solutions to the Word and Conjugacy Problems in Semigroups Satisfying Small Cancellation, Thesis, SUNY at Albany (1998).

Textbook: J.Teymouri, M. Leviton, B. Kolman: College Algebra: Introduction to Mathematical Thinking, B.V.T Publishing, June 2011.

Papers:Two Cancellative Commutative Congruences and Group Diagrams. A. Clifford, P. Cummings, J. Teymouri: Semigroup Forum Vol. 82 (2011) 338 – 353. Springer Verlag.

Papers:On Conjugacy elements in a Semigroup and Semigroup Diagrams. J. Teymouri. Semigroup Forum. Admitted for publication (2014). Springer Verlag.

Textbook: J. Teymouri, P. Gillet: Calculus with Analytic Geometry, B.V.T Publishing, April 2012, 1087 Pages Uses Calculus, I, II, III.

Textbook:J. Teymouri, P. Gillet: Differential Calculus, B. V. T Publishing, May 2013.

Textbook: J. Teymouri, M. Leviton: Algebra & Trigonometry, B. V. T Publishing, July 2013.

Textbook:J. Teymouri, P. Gillet: Integral Calculus, B. V. T Publishing, June 2013.

Textbook:J. Teymouri, P. Gillet: Multivariable Calculus, B. V. T Publishing, projected date, January 2018

Textbook: J. Teymouri, M. Schmidt: Elementary Statistics, B. V. T Publishing, projected date, June 2020.

**AREAS OF RESEARCH INTEREST:**

1. General Groups and Semigroup: Adjan’s and its conjugacy under certain circumstances the natural homomorphism from a semigroup into a group being injective. Conjugacy being preserved and reflected by the natural homomorphism for any semigroups.

2. Two Cancellative Commutative Congruenceswith its Group Diagram. Using group diagrams in Euclidean plane to demonstrate how equality in a semigroup that inside a group share the same presentation. Introducing a conjugacy equivalence relation in semigroups. Examining the geometry of annular group diagrams in the plane, and see their equivalence relation mirrors conjugacy.

3. Groups on R-trees. Questions concerning of which groups act freely on R-trees. Special classes of group, namely those that are amalgamated free product where the amalgamating subgroup is finite cyclic. A surface group where the group is isomorphic to the fundamental group of a closed possibly non-orientable surface.

**CREATIVE CONTRIBUTION TO TEACHING:**

Preparation of extensive course handout materials in College Algebra course at the College of Saint Rose in furthering the results of the publication of the text.

Preparation of extensive course handout materials in the sequence of Calculus for three-semester course at the College of Saint Rose in furthering the results of the publication of the text.

Use of standard mathematics test questions in furthering the solutions to the Actuarial exams in general mathematics. The questions are used to prepare students for a comprehensive field test at the end of the course. Furthering a publication of a book in Actuarial with the approval of the society by using their previous test questions and samples.

Preparation of extensive course handout materials in Differential Calculus at the College of Saint Rose in furthering the results of the publication of the text.

Preparation of extensive course handout materials in Integral Calculus at the College of Saint Rose in furthering the results of the publication of the text.

Preparation of extensive course handout materials in Multivariable Calculus at the College of Saint Rose in furthering the results of the publication of the text.

Preparation of extensive course handout materials in elementary Statistics at the College of Saint Rose in furthering the results of the publication of the text.

Preparation of extensive course handout materials in Algebra & Trigonometry at the College in furthering the results of the publication of the text.

**PROFESSIONAL EXPERIENCE:**

Associate Professor of Mathematics, College of Saint Rose, Department of Mathematics, 1995 – Present. Responsible for teaching all sequences of Calculus, College Algebra, Linear Algebra, Linear Programming and Game Theory, Finite Mathematics, Numerical Analysis, Number Theory, Real Analysis, Differential Equations, Complex Variable, Actuarial Science and Topics in Mathematics.

Assistant Professor of Mathematics, College of Saint Rose, Department of Mathematics, 1990 – 1995. Responsible for teaching all sequences of Calculus, College Algebra using Maple technology in teaching, Linear Algebra using Maple and serious of handout, Linear Algebra, Linear Programming and Game Theory, Finite Mathematics, Numerical Analysis, Number Theory, Real Analysis, Differential Equations, Complex Variable, Actuarial Science and Topics in Mathematics.

Assistant Professor of Mathematics, University at Albany, 1988 – 1990. Responsible for teaching all sequences of Calculus, College Algebra, Pre Calculus, Linear Algebra, Linear programming and Game theory, Actuarial Science.

Teaching assistant, University at Albany, 1983 – 1988.Responsible in teaching Pre-Calculus, Calculus I, II. Grading papers for undergraduate courses in Calculus. Responsible for tutoring students in a designed tutoring room to work and practice mathematics.

**HONORS RECEIVED:**

Professional achievement award, College of Saint Rose, 1993

Mini Grant, $500, College of Saint Rose, 1992

Professional achievement award, College of Saint Rose, 1989

Performance award, $1035, State University of New York at Albany, 1989

Summer Scholarship, State University of New York at Albany, 1984, 1985, 1986, 1987

Graduate Scholarship, State University of New York at Albany, 1983 – 1988

**PRESENTED PAPERS AT CONFERENCES:**

Adjans’s theorem and conjugacy in semigroup. Papers by R. Goldstein and J.Teymouri were presented at State University of New York at Albany to faculty and graduates in spring1994.

Adjans’s theorem and conjugacy in semigroup. Papers by R. Goldstein and J.Teymouri were presented at State University of New York at Albany to faculty and graduates in fall 1994.

Sphere complexes of 3-manifold and authomorphism of free group. Paper presented at State University of New York at Albany in a conference in topology and group theory in October 11, 1991.

Null homotopic words in group and 3 manifold. Paper was presented at State University of New York at Albany in a conference on topology in October 11, 1991.

Solutions to the conjugacy problem for finitely presented C(3) semigroup (using my definition of conjugacy). Paper presented at AMS, MAA meeting in Phoenix, Arizona in January 1989 in their 95th annual meeting.

Finitely generated group acting freely on R-tree. Paper presented at AMS, MAA meeting in Phoenix Arizona in January 1989.

Solutions to the conjugacy problem for finitely presented C(3) semigroup. Paper was presented at State University of New York at Albany during a seminar on topology in may, 1988.

Computing Rp (the length of the shortest identities for the word w=crccc for three different presentation of a free group. Paper was presented at State University of New York at Albany during a seminar on topology in February 1987,

Solutions to the word problem for finitely presented C(3) and C(4) semigroup. Paper was presented at State University of New York at Albany during a seminar on combinatorial group theory in February 1987,

Attended the Hudson River Undergraduate Math Conference at Skidmore College, April 28th, 2001.

Reviewed “ Introduction to Differential Equation and Dynamical System” By Williamson for McGraw-Hill higher education, Oct 2001.

Reviewed two chapters of Smith/Minton’s Calculus for McGraw Hill higher education, Boston/MA, Nov 2001.

Revised many books through B.V.T publications for authors in Mathematics through the country as well personal publications with B.V.T in the 5 years, 2010-2015.