



Dr. Sami Shukri

Curriculum Vitae

Personal Data

Name	Sami Atif Shukri	Nationality	Jordanian
Date of Birth	Aug 6, 1985	Marital Status	Married
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Education

- 2012–2016 **Ph.D. in Mathematics**, *King Fahd University of Petroleum & Minerals*, Dhahran, Saudi Arabia, #189 QS World Univ. Rankings[®]2017
Thesis Topic: Nonlinear Functional Analysis & Metric Geometry
Thesis Title: Fixed Point Theory of Nonexpansive Mappings in Hyperbolic Spaces
Supervisors: Prof. A. R. Khan & Prof. M. A. Khamsi
- 2008–2010 **M.Sc. in Mathematics**, *Jordan University of Science & Technology*, Irbid, Jordan, #651 QS World Univ. Rankings[®]2011
Thesis Topic: Nonlinear Partial Differential Equations
Thesis Title: The Extended Tanh Method for Solving Systems of Nonlinear Wave Equations
Supervisor: Prof. K. Al-Khaled
- 2003–2007 **B.Sc. in Mathematics**, *Yarmouk University*, Irbid, Jordan

Research Interests

Fixed Point Theory of Nonexpansive Mappings in Hyperbolic and $CAT(0)$ Spaces; Extensions of Banach's Contraction Principle; Geometric Properties of Banach and Metric Spaces (e.g., reflexivity, convexity).

Author / Researcher Identifiers & Profiles

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1/3

Teaching Experience

- 2022–Present **Associate Professor**, Al-Hussein Bin Talal University, Ma'an, Jordan
2019–2022 **Assistant Professor**, Al-Hussein Bin Talal University
2016–2019 **Assistant Professor**, Amman Arab University, Jordan
2012–2016 **Lecturer**, King Fahd University of Petroleum & Minerals, Saudi Arabia
2011–2012 **Lecturer**, King Khaled University, Saudi Arabia
2010–2011 **Lecturer**, King Saud University, Saudi Arabia

Courses Taught

- Functional Analysis (M.Sc & B.Sc)
- Real Analysis, Mathematical Analysis
- Abstract Algebra, Number Theory, Graph Theory
- Modern Euclidean & Non-Euclidean Geometry
- Logic and Set Theory
- Advanced Engineering Mathematics
- Calculus, Applied Calculus
- Physics: Mechanics
- History of Mathematics

Students Supervision

- 1 Alia Jebreel Abu Darweesh, *Fixed Points of Suzuki-Generalized Nonexpansive Mappings in $CAT_p(0)$ Spaces*, MSc Mathematics, Al-Hussein Bin Talal University, 2023.

Publications

- 1 *Some fixed point results on uniformly non-square metric spaces*, J. Nonlinear Funct. Anal. (2025)
- 2 *The Closest Point Theorem in $CAT_p(0)$ Metric Spaces*, Numer. Funct. Anal. Optim. (2024)
- 3 *Fixed points of Suzuki-generalized nonexpansive mappings in $CAT_p(0)$ metric spaces*, Arab. J. Math. (2024)
- 4 *Geometrical properties of ℓ_p spaces*, Fixed Point Theory (2021)
- 5 *Existence and convergence of best proximity points in $CAT_p(0)$ spaces*, J. Fixed Point Theory Appl. (2020)
- 6 *On monotone nonexpansive mappings in $CAT_p(0)$ spaces*, Fixed Point Theory Appl. (2020)
- 7 *Fixed points of discontinuous mappings in uniformly convex metric spaces*, Fixed Point Theory (2018)
- 8 *Best proximity points in partially ordered metric spaces*, Adv. Fixed Point Theory (2018)
- 9 *Generalized $CAT(0)$ spaces*, Bull. Belg. Math. Soc. Simon Stevin (2017)

- 10 *Implicit Ishikawa type algorithm in hyperbolic spaces*, Palestine J. Math. (2017)
- 11 *Browder and Göhde fixed point theorem for G -nonexpansive mappings*, J. Nonlinear Sci. Appl. (2016)
- 12 *Best proximity points in the Hilbert ball*, J. Nonlinear Convex Anal. (2016)
- 13 *Viscosity approximation method for generalized asymptotically quasi-nonexpansive mappings in a convex metric space*, Fixed Point Theory Appl. (2015)
- 14 *Soliton solutions of the Kaup-Kupershmidt and Sawada-Kotera equations*, Stud. Math. Sci. (2010)
- 15 *The extended tanh method for solving systems of nonlinear wave equations*, Appl. Math. Comput. (2010)

Conferences and Workshops

- 1 4th International Workshop on Fixed Point Theory & Applications, KFUPM, Saudi Arabia (2014)
- 2 5th International Workshop on Weak Sharp Minima in Optimization, KFUPM, Saudi Arabia (2015)

PhD Thesis

Title *Fixed Point Theory of Nonexpansive Mappings in Hyperbolic Spaces*

Abstract In this thesis, we establish analogues of classical theory of nonexpansive mappings in hyperbolic spaces. Some fundamental fixed point results in partially ordered Banach spaces are extended to hyperbolic spaces. A new characterization of reflexive and strictly convex Banach spaces is established. We also discuss this characterization in hyperbolic spaces. An extension of the Banach Contraction Principle for best proximity points in $CAT(0)$ spaces is obtained. Moreover, the case of nonexpansive mappings is also discussed in this setting. An extension of the Gromov geometric definition of $CAT(0)$ spaces is introduced. Finally, iterative approximation of common fixed points of nonexpansive and quasi-nonexpansive mappings defined on convex metric spaces is studied.

Masters Thesis

Title *The Extended Tanh Method for Solving Systems of Nonlinear Wave Equations*

Abstract The extended tanh method with a computerized symbolic computation is used for constructing the travelling wave solutions of coupled nonlinear equations arising in physics. The obtained solutions include solitons, kinks and plane periodic solutions. The applied method will be used to solve the generalized coupled Hirota Satsuma KdV equation.

Computer Skills

L^AT_EX, Mathematica, ICDL