# Dr. Sami Shukri

*Curriculum Vitae*

## Personal Data

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| Name | Sami Atif Shukri |
| Nationality | Jordan |
| Date of Birth | Aug 6, 1985 |
| Marital Status | Married |
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## Author/ Researcher Identifiers & Profiles

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| Web of Science Researcher ID | AAJ-3130-2021 |
| Scopus Author ID | 36239487100 |
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## Teaching Experience

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

## Education

**2012–2016**  **Ph.D. in Mathematics**, *King Fahd University of Petroleum & Minerals*, Dhahran, Saudi Arabia, # 189 QS World University Rankings®2017
Thesis Topic: Metric Fixed Point Theory
Thesis Title: Fixed Point Theory of Nonexpansive Mappings in Hyperbolic Spaces
Supervisors: Professor A. R. Khan & Professor M. A. Khamsi

**2008–2010**  **M.Sc. in Mathematics**, *Jordan University of Science & Technology*, Irbid, Jordan, # 651 QS World University Rankings®2011
Thesis Topic: Partial Differential Equations
Thesis Title: The Extended Tanh Method for Solving Systems of Nonlinear Wave Equations
Supervisor: Professor K. Al-Khaled

**2003–2007**  **B.Sc. in Mathematics**, *Yarmouk University*, Irbid, Jordan

## 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.

## Publications

1. **S. Shukri**, *Fixed Points of Lipschitzian and non-Lipschitzian Mappings.* Submitted (**2024**).

2. **S. Shukri**, *The Closest Point Theorem in $CAT_p(0)$ Metric Spaces.* Submitted (**2024**).

3. A. A. Darweesh & **S. Shukri**, *Fixed points of Suzuki-Generalized Nonexpansive Mappings in $CAT_p(0)$ Metric Spaces.* Arab. J. Math. (**2024**). https://doi.org/10.1007/s40065-024-00455-2

4. **S. Shukri**, *Geometrical Properties of $l_p$ Spaces.* Fixed Point Theory, 22 (**2021**), 881-886.

5. **S. Shukri**, *Existence and Convergence of Best Proximity Points in $CAT_p(0)$ Spaces.* J. Fixed Point Theory Appl. 22, 48 (**2020**). https://doi.org/10.1007/s11784-020-00785-6

6. **S. Shukri**, *On Monotone Nonexpansive Mappings in $CAT_p(0)$ Spaces.* Fixed Point Theory Appl 2020, 8 (**2020**). https://doi.org/10.1186/s13663-020-00675-z

7. **S. Shukri**, V. Berinde & A. R. Khan, *Fixed Points of Discontinuous Mappings in Uniformly Convex Metric Spaces.* Fixed Point Theory, 19 (**2018**), 397-406.

8. **S. Shukri** & A. R. Khan, *Best Proximity Points in Partially Ordered Metric Spaces.* Adv. Fixed Point Theory, 8 (**2018**), 118-130.

9. M. A. Khamsi & **S. Shukri**, *Generalized $CAT(0)$ Spaces.* Bull. Belg. Math. Soc. Simon Stevin 24 (3) 417 - 426, **2017**. https://doi.org/10.36045/bbms/1506477690

10. A. R. Khan, H. Fukhar-Ud-Din & **S. Shukri**, *Implicit Ishikawa Type Algorithm in Hyperbolic Spaces,* Palestine Journal of Mathematics 6 (**2017**), no. 1, 101–110.

11. M. R. Alfuraidan & **S. Shukri**, *Browder & Göhde Fixed Point Theorem for $G$-Monotone Nonexpansive Mappings,* The Journal of Nonlinear Science and Applications 9 (**2016**), 4078-4083.

12. A. R. Khan & **S. Shukri**, *Best Proximity Points in the Hilbert Ball,* Journal of Nonlinear and Convex Analysis 17 (**2016**), 1083-1094.

13. A. R. Khan, N. Yasmin, H. Fukhar-Ud-Din & **S. Shukri**, *Viscosity Approximation Method for Generalized Asymptotically Quasi-Nonexpansive Mappings in a Convex Metric Space.* Fixed Point Theory Appl 2015, 196 (**2015**). https://doi.org/10.1186/s13663-015-0447-6

14. **S. Shukri**, *Soliton Solutions of the Kaup-Kupershmidt and Sawada-Kotera Equations,* Studies in Mathematical Sciences 1 (**2010**), 38-44.

15. **S. Shukri**, & K. AL-Khaled, *The Extended $\tanh$ Method for Solving Systems of Nonlinear Wave Equations,* Applied Mathematics and Computation 217 (**2010**), 1997-2006.

## Students Supervision

1. Alia Jebreel Abu Darweesh, *Fixed points of Suzuki-Generalized Nonexpansive Mappings in $CAT_p(0)$ Spaces*. Master of Science in Mathematics (2023). Al-Hussein Bin Talal University, Ma'an, Jordan

## Courses Taught

1. Functional Analysis/ **M.Sc**
2. Functional Analysis/ **B.Sc**
3. Real Analysis
4. Mathematical Analysis
5. Abstract Algebra
6. Number Theory
7. Graph Theory
8. Modern Euclidean Geometry
9. Non-Euclidean Geometry
10. Logic and Set Theory
11. Advanced Engineering Mathematics
12. Calculus
13. Applied Calculus
14. Physics; Mechanics
15. History of Mathematics

## Conferences and Workshops

1. The 4th International Workshop on Fixed Point Theory & Applications, organized by the Fixed Point Theory and Applications Research Group. December 22-24, 2014. King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.

2. The 5th International Workshop on weak sharp minima in optimization, organized by the Fixed Point Theory and Applications Research Group. December 14-15, 2015. King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia.

## Computer skills

LaTeX, Mathematica, ICDL.