



# Dania Santina

FACULTY MEMBER - MATHEMATICS DEPARTMENT



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🌐 <https://www.daniasantina.com>

## SUMMARY

Highly experienced Faculty Member in the Mathematics Department with 14 years of teaching, research, and leadership experience in higher education.

Proven track record of fostering student engagement, developing innovative curriculum, and conducting impactful research in the field of mathematics. Skilled in mentoring staff, collaborating with colleagues, and contributing to the academic community through publications in internationally reputed journals and presentations.

## EDUCATION

Pursuing Ph.D of Pure Mathematics

University of Malaya - Kuala Lumpur - Malaysia (QS World University Ranking: 60) Oct 2022 - Jun 2026

Higher Education and Learning Certificate Program

Prince Sultan University - Riyadh - Saudi Arabia 2018

Teaching Diploma

American University of Science & Technology - Beirut - Lebanon 2009

Master's Degree in Mathematics,

Beirut Arab University - Beirut - Lebanon 2008

Diploma of Masters,

Beirut Arab University - Beirut - Lebanon 2006

Bachelor of Science (BS in Mathematics),

Beirut Arab University - Beirut - Lebanon 2005

## EXPERIENCE

**Mathematics Lecturer.**

Prince Sultan University - Riyadh - Saudi Arabia. Aug 2016 - Present

- Designing and updating the curriculum.
- Assessing student performance and provide mentoring and feedback to help students excel academically
- Foster a positive and inclusive learning environment for all students
- Developing and delivering engaging and effective lectures on various mathematical concepts and theories
- Conducting research in various areas of mathematics
- Collaborating with other researchers and academics in the field Presenting
- research findings at conferences and seminars
- Conducting research to explore new mathematical theories and concepts
- Publishing research papers in highly ranked international academic journals.

**Academic Advising Coordinator**

Prince Sultan University- Riyadh - Saudi Arabia. 2022 – Present

- Provide academic counseling and support to students, helping them make informed decisions about courses, degree programs, and career paths.

- Assist students with course selection, academic policies, and monitoring their progress.
- Develop and maintain relationships with faculty, staff, and other stakeholders to ensure timely support and resources for students.
- Conduct individual and group advisement sessions, including orientation and transition-related activities.
- Assist in the development and implementation of academic and career-related programming and events.
- Maintain accurate and current records of student interactions and progress, using data to inform decision-making and program improvements.
- Stay updated on current trends and best practices in academic advising and education.
- Provide referrals to additional support services as necessary, such as mental health counseling or disability services.
- Assign all PYP students to academic advisors from College of Humanities and Sciences.

#### **Mathematics Coordinator for preparatory year courses.**

**Prince Sultan University- Riyadh - Saudi Arabia.** 2016 - 2019

- Taught mathematics at the preparatory level.
- Developed and updated curriculum for mathematics courses.
- Collaborated with faculty to align courses and programs.
- Provided professional development to enhance faculty teaching skills.
- Monitored student performance and implemented interventions.
- Analyzed academic data to identify trends and areas for improvement.
- Established goals and benchmarks for student achievement.
- Ensured resources and materials were up-to-date and relevant.
- Participated in departmental meetings and committees.

#### **Mathematics Lecturer.**

**Prince Sultan University - Riyadh - Saudi Arabia.** Jun 2012 - Jul 2016

Contractual Agreement.

- Delivering lectures on various topics in mathematics to PYP students and college level students.
- Developing and updating course content and materials.
- Preparing and grading assignments, exams, and projects.
- Providing feedback and guidance to students on their academic progress.
- Conducted exams, graded assignments, and provided constructive feedback to students
- Participated in departmental meetings and collaborated with colleagues on curriculum development
- Assisted in organizing outreach events to promote interest in mathematics among students in the community.

#### **Mathematics Academic Coordinator For Preparatory Year Program.**

**Princess Nourah Bint Abdulrahman University- Riyadh - Saudi Arabia.** Jul 2011 - Jul 2012

Contractual Agreement.

- Creating lesson plans and curriculum for preparatory mathematics courses.
- Delivering workshops, leading discussions, and conducting tutorials to the lecturers.
- Develop and administer exams and assignments for all pyp sections.
- Collaborate with colleagues to improve curriculum and teaching methods
- Coordinate and oversee academic programs within the mathematics department Develop
- and implement policies and procedures for faculty and students
- Manage course scheduling and room assignments
- Monitor student progress and communicate with faculty and staff
- Collaborate with other departments and academic institutions on academic initiatives.
- Overseeing the development and implementation of the mathematics curriculum for the Preparatory Year Program
- Creating and updating course materials, including lectures, assignments, and assessments
- Providing guidance and support to mathematics instructors in delivering the curriculum effectively
- Monitoring student progress and performance in mathematics courses
- Identifying areas for improvement in the mathematics program and implementing changes as needed

**Journal: JMCS – Journal Of Mathematics and Computer Science**

**2024-09-10**

A comparative study of numerical methods for singularly perturbed boundary value problems

Kamrana,\*, Salma Aljawib, Muhammad Irfana, Dania Santina,\*, Nabil Mlaiki,\*,

**Journal: Partial Differential Equations in Applied Mathematics**

**2024-09-01**

Israr Ahmad a, Khursheed Jamal Ansari b, Hussam Alrabaiah c d, Dania Santina e, Nabil Mlaiki N. Study of 1+1 dimensional fractional order non-linear Benney equation using an analytical technique.

**Journal: Journal of Inequalities and Applications**

**2024-08-01**

Koti N.V.V. Vara Prasad , Vinay Mishra , Zoran D. Mitrovic´, Dania Santina and Nabil Mlaiki

Unified interpolative of a Reich-Rus-Ciri ´ c-type contraction in relational ´ metric space with an application

**Journal: Partial Differential Equations in Applied Mathematics .**

**2024-06-01**

Dania Santina Santina D., Kamran Kamran, Muhammad Asif Asif M., Salma Aljawi Aljawi S., Nabil Mlaiki Mlaiki N.

Application of the inverse Laplace transform techniques to solve the generalized Bagley–Torvik equation including Caputo's fractional derivative.

**Journal: Networks and Heterogeneous Media**

**2024-01-01**

Farman Ali Shah Shah F.A. , Kamran Kamran ,Dania Santina Santina D. ,Nabil Mlaiki Mlaiki N. ,Salma Aljawi Aljawi S.

Application of a hybrid pseudospectral method to a new two-dimensional multi-term mixed sub-diffusion and wave-diffusion equation of fractional order

**Journal: Fixed Point Theorems**

**2023-06-01**

Seshagiri Rao Seshagiri Rao N. ,Zoran D. Mitrovic Mitrovic Z.D. ,Dania Santina Santina D. ,Nabil Mlaiki Mlaiki N.

Fixed Point Theorems of Almost Generalized Contractive Mappings in b-Metric Spaces and an Application to Integral Equation

**Journal: Symmetry**

**2023-05-01**

Nihal Tas N.,Elif Kaplan Kaplan E.,Dania Santina Santina D.,Nabil Mlaiki Mlaiki N.,Wasfi Shatanawi Shatanawi W.

Some Common Fixed Circle Results on Metric and S-Metric Spaces with an Application to Activation Functions.

**Journal: Axioms**

**2023-04-01**

Nabil Mlaiki Mlaiki N.,Nihal Özgür Ozgur N.,Nihal Tas Tas N.,Dania Santina Santina D. On the Fixed Circle Problem on Metric Spaces and Related Results.

**Journal: Results in Physics**

**2023-03-01**

Hamood Ur Rehman Rehman H.U. ,Mahmood Ul Hassan Hassan M.U. ,Muhammad Shoaib Saleem Saleem M.S. ,Romdhane Nasri Nasri R. ,Dania Santina Santina D. ,Nabil Mlaiki Mlaiki N.

Soliton solutions of Zakhrov equation in ionized plasma using new extended direct algebraic method

**Journal: Symmetry**

**2023-02-01**

Dania Santina Santina D. ,Wan Ainun Mior Othman Mior Othman W.A. ,Kok Bin Wong Wong K.B. ,Nabil Mlaiki Mlaiki N.

New Generalization of Metric-Type Spaces—Strong Controlled.

**Journal: Axioms**

**2023-02-01**

Gunasekaran Nallaselli Nallaselli G. ,Arul Joseph Gnanaprakasam Gnanaprakasam A.J. ,Gunaseelan Mani Mani G. ,Ozgur Ege Ege O. ,Dania Santina Santina D. ,Nabil Mlaiki Mlaiki N.

A Study on Fixed-Point Techniques under the  $\alpha$ -F-Convex Contraction with an Application

**Journal: Thermal Science**

**2023-01-01**

Salman Zeb Zeb S.,Sapna Gul Gul S.,Kamal Shah Shah K.,Dania Santina Santina D.,Nabil Mlaiki Mlaiki N MELTING

HEAT TRANSFER AND THERMAL RADIATION EFFECTS ON MHD TANGENT HYPERBOLIC  
NANOFLUID FLOW WITH CHEMICAL REACTION AND ACTIVATION ENERGY

**Journal: AIMS Mathematics**

**2023-01-01**

Muhammad Suhail Aslam Aslam M.S. ,Mohammad Showkat Rahim Chowdhury Chowdhury M.S.R. ,Liliana Guran Guran L. ,Isra Manzoor Manzoor I. ,Thabet Abdeljawad Abdeljawad T. ,Dania Santina Santina D. ,Nabil Mlaiki Mlaiki N.

Complex-valued double controlled metric like spaces with applications to fixed point theorems and Fredholm type integral equations

**Journal: AIMS Mathematics**

**2023-01-01**

Nabil Mlaiki Mlaiki N. ,Jamshaid Ahmad Ahmad J. ,Abdullah Eqal Al-Mazrooei Al-Mazrooei A.E. ,Dania Santina Santina D.

Common fixed points of locally contractive mappings in bicomplex valued metric spaces with application to Urysohn integral equation

**Journal: Axioms**

**2022-10-01**

Jamshed Khan Khan J. ,Tahir Hussain Hussain T. ,Dania Santina Santina D. ,Nabil Mlaiki Mlaiki N.

Homothetic Symmetries of Static Cylindrically Symmetric Spacetimes—A Rif Tree Approach

**Journal: International Journal of Applied Mathematics**

**2008-05-02**

The Hecke algebra representation of the braid group  $B_3$  is conjugate to a unitary representation.

## CONFERENCES

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**First International Conference on Pure and Applied Mathematics "ICPAM**

"ICPAM - September 2024"

Moderator - Prince Sultan University - Riyadh - Saudi Arabia

**International Conference on Emerging Trends in Mathematics and Scientific Computing and Researchers**

"ICETMSC - June 2024"

Presenter - School for Applied Science and Humanities at VIGNAN's Foundation - INDIA

## COMMITTEES INVOLVED

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Quality Committee Member - PSU  
Prince Sultan University

Curriculum Review Committee Member - PSU  
Prince Sultan University

Equalization Committee - PSU  
Prince Sultan University

Risk Committee Member - PSU  
Prince Sultan University

## RECENT COURSES

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- ♦ MATH001: Preparatory Mathematics I
- ♦ MATH002: Preparatory Mathematics II
- ♦ MATH113 : Calculus II
- ♦ MATH223: Linear Algebra
- ♦ MATH101: Finite Mathematics

## LANGUAGES

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English



French



Arabic



## REFERRALS

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**Dr. Heba Khoshaim**

Vice President For Women's Campus.

Prince Sultan University - Riyadh - Saudi Arabia

Contact Number: +966559939984

**Prof. Dr. Nabil Mlaiki**

Mathematics Professor

Prince Sultan University - Riyadh - Saudi Arabia

Contact Number: +966547885408

**PROF. DR. Wong Kok Bin**

Mathematics Professor

Universiti Malaya - Kuala Lumpur - Malaysia Contact

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**Ms. Suhad Sobhi**

Mathematics lecturer

Prince Sultan University - Riyadh - Saudi Arabia

Contact Number: +966535563006