

# Safa Al Refai

## Curriculum Vitae

### Personal Details

**Name:** Safa Emad Al Refai

**Nationality:** Jordanian

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### Academic Qualifications

- **MSc in mathematics**, United Arab Emirates University, 10 May 2021.  
GPA: 3.46  
Dissertation title: "A Numerical method for solving Fuzzy initial value problems"  
Advisor: Prof. Muhammed I. Syam, Co-advisor: Prof. Mohammed Al-Refai
- **BSc in Mathematics**, United Arab Emirates University, 20 Dec 2018
  - Major: Mathematics • Minor: Statistics • GPA: 3.13
- **IELTS certificate** (IELTS score: 6), British council Abu Dhabi, Al Ain University, 14 12 2024.

### Employment History

- **Teaching Experience**
  - **Math instructor at UAE University** (Part time), Al Ain, 14-August-2023, 17-Dec-2024.
  - **Math instructor at Abu Dhabi University** (Part time), Abu Dhabi, , 3-July-2023, 25-June-2024.
  - **Math teacher at Al Madar International School**, Primary, Al Ain, 14-Jan-2022- 8- June- 2022.

- **Research Experience**
- **Graduate Research Assistant**
  - Department of Mathematical Sciences, UAE university, 2018-2020.
  - Assistant to Prof. Abdallah Rababah.
  - Collaborating and coordinating with faculty, staff scientists, and fellow graduate students across departments
- **Undergraduate Research Experience**
  - Research project: The Weierstrass Function and Modular Forms, 10 Dec 2018.
  - Contribute to SURE PLUS 2017 (Summer Undergraduate Research Experience), UAEU, 2017.
  - Oral Presenter at “The 4th Annual Undergraduate Student Research Conference2018”, UAEU.
  - Poster presenter at SURE PLUS 2017 Poster Exhibition, UAEU, 4 Feb 2018.

### Teaching Experience

- **Teaching -Math instructor at UAE University** (Part time), Al Ain, 14-August-2023, 17-Dec-2024.
- **Teaching- Math instructor at Abu Dhabi University** (Part time), Abu Dhabi, , 3-July-2023, 25-June-2024.
- **Research Assistant**, Department of Mathematical Sciences, UAE university, 2018-2020.
- **Math teacher at Al Madar International School**, Primary, Al Ain, 14-Jan-2022-8- June- 2022.

### Conferences & Workshops

#### Oral Presentations

- ” A Numerical Method for Solving Fuzzy Initial Value Problems of Second-Order,” Third AUS Regional Students' Conference on Mathematics,American University of Sharjah, 10 April 2021.
- ” The Fractional Laguerre Equation: Series Solutions and Fractional Laguerre Functions,” The Undergraduate Student Research Conference, UAEU, 17 April 2018.

#### Poster Presentations

- ” An implicit Hybrid Method for Solving Fractional Bagley-Torvik Boundary Value Problem,” UAEU Annual Research and Innovation Conference, UAEU, 5-6 Feb 2019.
- ” The Fractional Laguerre Equation: Series Solutions and Fractional Laguerre Functions,” SURE PLUS 2017 Poster Exhibition, UAEU, 4 Feb 2018.

## **Professional Development Courses and Workshops**

➤ Attended Creating Research Reports and presentation in Scientific Workplace Workshop, 21 Feb 2021.

➤ Attended Creating Report and Beamer presentations (in Overleaf), 23 Feb 2021.

➤ Attended Creating and Editing Report in Texmaker and TeXstudio, 23 Feb 2021.

➤ Attended Laser Cutting Workshop, AIAA, 11 Oct 2016.

➤ Attended 3D Printing Workshop 2016.

➤ Attended “Develop your personality” Workshop 2016.

## **Research Interests**

**Numerical analysis** (Fuzzy Initial Value Problems, Fractional Bagley-Torvik Boundary Value Problem, The fractional Laguerre equation).

## **Research Publications (Books, Journals & Conferences papers)**

➤ Al-Refai, S., Syam, M. I., & Al-Refai, M. (2021). Optimization of One-Step Block Method for Solving Second-Order Fuzzy Initial Value Problems. Complexity, 2021.

➤ Syam, M. I., Alsuwaidi, A., Alneyadi, A., Al Refai, S., & Al Khaldi, S. (2019). Implicit hybrid methods for solving fractional Riccati equation. J. Nonlinear Sci. Appl., 12(2), 124-134.

➤ Syam, M. I., Alsuwaidi, A., Alneyadi, A., Al Refai, S., & Al Khaldi, S. (2018). An Implicit Hybrid Method for Solving Fractional Bagley-Torvik Boundary Value Problem. Mathematics, 6(7), 109.

➤ Al-Refai, S., Syam, M.I., & Al-Refai, M. (2021). A numerical approach based on an optimization of one step block method for solving first order fuzzy initial value problems. Open Systems & Information Dynamics, submitted.

➤ Shat, R., Alrefai, S., Alhamayda, I., Sarhan, A., & Al-Refai, M. (2019). The fractional Laguerre equation: Series solutions and fractional Laguerre functions. Frontiers in Applied Mathematics and Statistics, 5, 11.

## **Computer Skills**

- **Microsoft Office:** MS excel, Outlook, MS PowerPoint.
- **Data analysis programs:** Minitab, SPSS.
- **Other programs:** Wolfram Mathematica, Latex, Blackboard
- **Programming languages:** C++, Java, R for Statistical Computing.

## **University & Community Services**

- Tutor at the tutorial center UAEU, teaching math, Fall 2017-3 months.
- Organizer of the 3rd Annual Research and Innovation Conference, UAEU, 5-6<sup>th</sup> Feb 2018.
- Organizer of the 14th Math Day, 14 Feb 2018.