Fatima Kaloti-Hallak

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Career Objective: To work as researcher to unfold the effectiveness of using technology in education, and as a lecturer in the field of computer science teaching and educational technology, positively impact the students with clear objectives, enhance communication and improve efficiency. My intention is toward making a difference in whatever work setting I encounter.

Professional Experience:

2020-present **ONO Academy college, Jerusalem**
Lecturer for educational technology
Teaching master and bachelor students, educational technology, web development, introduction to programming and robotics, and research

2015-2020 **Rosary Sisters' High School, Jerusalem**
Coordinator and Consultant
Computer Science / Information Technology (CS/IT)
- Enhance teachers' professional development and methods of teaching, and online teaching
- Organize and monitor the curriculum of computer science/technology discipline for grades K - 12th grade.
- Construct CS/IT learning materials
- Review class assessments and evaluation
- Train group of students on First Lego League Robotics competition including programming and research using LEGO Mindstorms

2019 **Arab European Foundation for Consulting,**
Instructor trainer in a workshop of integrating Technology in education
Training, Research and Higher Education

2016 - 2019 **Birzeit University, Assistant Professor**
Department of Curriculum & Instruction, Faculty of Education, West Bank
Taught courses for bachelor, master's degree and teaching certificate program (professional development) for educators. Such courses were: educational technology, qualitative research methodology, introduction to research methodology, seminars, models of learning and teaching with ICT, assessment and evaluation, and introduction to education. Supervised and examined master students' thesis. Supervised Master student: research title: "*The effect of flipped classroom on 9th grade students learning mathematics and their attitudes towards it."*

2016 – 2017 **Faisal Huseini Foundation, Researcher**
Research title: "*The effect of Robotics activities on 4th grade students with learning difficulties"*.

2002 - 2016 **Al-Quds University, Assistant Professor**
Department of Computer Science and Information Technology
Taught courses for bachelor's degree students – I was one of the teachers that started the IT department at the university Supervised graduate bachelor's degree students with their seminars/project preparation
Taught a few courses at AlQuds Bard college.

2000 – 2001 **Pfizer Inc. – Michigan /USA, Sr. System Analyst**
Department of Information Technology

1999 **Eastern Michigan University, – Michigan /USA, Graduate Assistant**
Department of Finance and Computer Information System

1994 **Washtenaw Community College – Michigan /USA, Lab Assistant**

1989 – 1992 **United Nation Relief & Work Agency (UNRWA), Assistant Program Officer**

Education:

2011- 2015 **Weizmann Institute of Science, Rehovot, PhD**
Science Teaching
Research title: *"The effect of Robotics activities on students' STEM learning and attitudes"*.
I participated in many courses such as: Scientific computing, learning environments, self-efficacy, best practices for gifted and talented students, supporting scientific practices in K-12 classrooms and integration of learning technologies.

2013 – 2015 **Weizmann Institute of Science, Teaching certificates**

2009- 2011 **Weizmann Institute of Science, Master of Science**
Science Teaching
Research title: "*Learning Programming Concepts using Scratch at the Middle School Level*".
I participated in many courses such as: Introduction to science and mathematics education, cognition learning and instruction – an introduction for mathematics and science education, introduction to the methodology of science education research, quantitative methods in Education research, qualitative research: Approaches and methodologies, and assessment methods in science and mathematics education

1998 – 2000 **Eastern Michigan University, Michigan/ USA, Master of Science**
Computer Information System

1995-1998 **Eastern Michigan University – Michigan / USA, Bachelor of Science**
Business, Computer & Social Sciences

Received Dean's Honor at College of Business in May 97

1993-1995 **Washtenaw Community College (WCC) – Michigan / USA, Associate Degree Business Computer Programming**
Selected as a recipient of the WCC Departmental Scholarships, Fall 94 & Winter 95.
Received Dean's Honor, Fall 93, Winter 94 & 95

Publications

Kaloti-Hallak, F., Ben-Ari, M. & Armoni, M. (2019). The effect of robotics activities on learning the engineering design process. *Informatics in Education, 18*(1). 105–129

Kaloti-Hallak, F., Ben-Ari, M. & Armoni, M. (2017). Learning physics and mathematics during robotics activities. International Conference on Research in Education & Science, Ephesus Kusadasi, Turkey. Abstract retrieved from Abstract book of ISRES.

Kaloti-Hallak, F., Armoni, M. & Ben-Ari, M. (2015). Students' attitudes and motivation during robotics activities. WiPSCE '15, London, UK. ACM

Kaloti-Hallak, F., Armoni, M. & Ben-Ari, M. (2015). The effectiveness of robotics competitions on students' learning of computer science. *International Olympiad in Informatics, 9*. 89 - 112

Kaloti-Hallak, F. (2014). The effect of robotics activities on students' learning and attitudes. ICER, ACM

Ben-Ari, M. & Kaloti-Hallak, F. (2012). Demonstrating random and parallel algorithm with Spin. *ACM Inroads 3*(3), 36–38.

Volunteer work:

2019-2020 Rosary Sisters' High School, Robotics competition trainner

2017-present Rawdet Al-Zuhur School, School's committee member

2019 Beta Educator ביתא מחנכים, Jerusalem, Teachers' consultant

2019 Feisal Al Husseini Robotics competition, Robot structure and design judge

2018 ISEF (Intel International Science and Engineering Fair), West Bank,

Scientific research project judge

2014 & 2016 FLL (First LEGO League) competition, Jerusalem,

Robotics structure and design judge

2013 & 2015 FLL (First LEGO League) competition, Jerusalem

Scientific research project judge