

# Anat Even-Zahav, Ph.D.

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## EDUCATION

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**Ph.D., Science Education, Technion – Israel Institute of Technology, Israel** **2013-2016**

- Dissertation: “Strategic Analysis of Educational Systems: Risk Management of STEM”
- Supervisor: Prof. Orit Hazzan

**M.Sc., Science Education, Technion – Israel Institute of Technology, Israel** **2012-2013**

- Dissertation: “Science Teachers’ Perception of the Israeli Science Education System: The Professional-Bureaucratic Conflict”
- Supervisor: Prof. Orit Hazzan

**Graduate Courses, Ed.D. in Mathematics Education, Rutgers University, USA** **2009-2011**

- Courses completed: “Introduction to Mathematics Education”; “Seminar in Mathematics Education Research”; “Mathematics Education Practicum”

**Graduate Course, Department of Mathematics, University of Illinois at Urbana-Champaign, USA** **2006**

- Courses completed: “Calculus & Mathematica”; “Linear Algebra”

**MBA, Business Administration, Hebrew University of Jerusalem, Israel** **1996-1999**

- Specialization in finance and banking

**Teaching Certificate, Mathematics, Tel Aviv University, Israel** **1987-1988**

**B.Sc., Applied Mathematics, Tel Aviv University, Israel** **1984-1987**

## PUBLICATIONS

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### *Refereed Papers*

Gil, E., Even-Zahav, A., & Siemionow, J. (2023). "Developing Entrepreneurship mindset in an International and Interdisciplinary Learning Environment amidst Covid-19." *Instructional Science Journal*. (Under review.)

Widder, M., & Even-Zahav, A. (2023). "Professional well-being of expert mathematics and science teachers in effective professional development programs." *Journal of Research and Study in Mathematics Education*. (In Hebrew, article accepted.)

Even-Zahav, A., & Hazzan, O. (2023). “Challenges and Opportunities in Higher Education in the Post-Corona Era.” *Journal of Organizational Research and Human Resource Management*. (In Hebrew, article accepted.)

Even-Zahav, A., Gnaim-Abu Touma, L., Chaleila, W., Wattad, H., Habaieb, H. (2022) “Practicum Experience During COVID-19: How Did Teaching Online Impact Pre-Service Teachers’ Self-Efficacy at an Arab College in Israel?” *Journal of International Scientific Publications: Educational Alternatives* 20, 284-296. <https://www.scientific-publications.net/get/1000054/1664657912844831.pdf> (Article published.)

Even-Zahav, A., Widder, M., & Hazzan, O. (2022). “From Teacher Professional Development to Teacher Personal-Professional Growth: The Case of Expert STEM Teachers.” *Teacher Development*, 1-18. <https://www.tandfonline.com/doi/abs/10.1080/13664530.2022.2052947> (Article published.)

Even-Zahav, A., Cohen, H., & Hazzan, O. (2019). Inter-Disciplinary learning in Educational Systems. *Lexi-Kaye. Kaye Academic College of Education*, 12, 11-14.

<https://www.kaye.ac.il/wp-content/uploads/2019/12/%D7%9C%D7%A7%D7%A1%D7%99-%D7%A7%D7%99%D7%99-12-.pdf> (In Hebrew, article published.)

Even-Zahav, A & Hazzan, O. (2018). "Israeli Science Teachers' Perception of STEM Education: The Bureaucratic Professional Conflict." *Ka-et, Talpiot, College of Education, Israel*, 3, 208-223.

<https://www.talpiot.ac.il/wp-content/uploads/2018/10/כַּעַת-שְׁלִישִׁי.pdf> (In Hebrew, article published)

Even-Zahav, A., Shahar, S., & Hazzan, O. (2016). "What Do Police Academy Instructors and STEM Teachers Have in Common? The Mission Paradox." *Cogent Education*, 3(1), 1218817.

<https://www.cogentoa.com/article/10.1080/2331186X.2016.1218817> (Article published)

### **Briefs & Reports**

Even-Zahav, A., Widder, M., & Hazzan, O. (2018). *Teacher Career Ladders in Educational Systems*. Invited report by the Initiative for Applied Education Research-Israel.

<http://education.academy.ac.il/SystemFiles/23235.pdf> (In Hebrew.)

Hazzan, O., Heyd-Metzuyanim, E., Even-Zahav, A., Tal, T. & Dori, Y. J. (2017). *Application of Management Theories for STEM Education: The Case of SWOT Analysis*. SpringerBriefs in Education.

<http://www.springer.com/us/book/9783319689494>

Even-Zahav, A., & Hazzan, O. (2017). *Risk Management of Education Systems: The Case of STEM Education in Israel*. SpringerBriefs in Education.

<http://www.springer.com/gp/book/9783319519838>

Lemarchand, G. A., Leck, E., & Tash, A. (2016). *Mapping Research and Innovation in the State of Israel: Women in Science and Engineering*. Box 10, p.80. Paris: UNESCO.

<http://unesdoc.unesco.org/images/0024/002440/244059e.pdf>

### **Papers & Professional Blogs**

Even-Zahav, A. & Hazzan, O. (2022). "Three Risks Facing Higher Education." *CACM – Communications of the ACM*, BLOG@CACM.

<https://cacm.acm.org/blogs/blog-cacm/265685-three-risks-facing-higher-education/fulltext>

Even-Zahav, A., Widder, M., & Hazzan, O. (2019). "From Teacher Professional Development to Teacher Personal-Professional Development." *Bitaon Mofet*, 63, 81-85.

<file:///C:/Users/anatez/Downloads/bitaon63.pdf>

Shahar, S., Even-Zahav, A., & Hazzan, O. (2017). "What Is Common to the Police Training System and The Education System? The Mission Paradox." *Bitaon Mofet*, 59(3), 55-61.

<http://www.mofet.macam.ac.il/ktiva/bitaon/Documents/bitaon59.pdf> (In Hebrew.)

Even-Zahav, A. (2016). "Risk Management of STEM Education in Israel." *Keshet Ayin*, 258(2), 68-69.

<http://user-1723486.cld.bz/igm-258#68> (In Hebrew.)

### **Press**

Maor, D. (2016). "What Happens When an Excellent Female Student Raises her Hand in Class?" *The Marker*.

<http://www.themarker.com/career/1.2905021>

## CONFERENCE PRESENTATION

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- “From Teacher Professional Development to Teacher Personal-Professional Growth: The Case Of Expert Science And Mathematics Teachers.” *Research report at the 46th Annual Meeting of the International Group for the Psychology of Mathematics Education on “Mathematics education for global sustainability.”* 16-21 July 2023, University of Haifa, Haifa, Israel. Proceeding published on p. 2-299, here:  
<https://drive.google.com/file/d/1b1dW2zMYwed73092WI7Ed0vstxZ9WUFk/view>
- “Developing Entrepreneurship Mindset in an International and Interdisciplinary Learning Environment Amid COVID-19.” *Paper presentation at the 8th International Conference on Teacher Education: Passion and Professionalism in Teacher Education.* 26-27 June 2023, MOFET Institute, Tel Aviv, Israel Abstract published on:  
<https://virtual.oxfordabstracts.com/#/event/2334/submission/203>
- “Practicum Experience During COVID-19. How Did Teaching Online Impact Pre-Service Teachers’ Self-Efficacy at an Arab College in Israel?” *Lecture session at the 13th International Conference on Education, Research & Development.* 25-28 August 2022, Burgas, Bulgaria. Abstract published on:  
<https://www.sciencebg.net/download/education-language-2022.pdf>.  
<https://www.scientific-publications.net/en/article/1002394/>
- “‘Bridging the Distance’: Developing Entrepreneurial Thinking in an International and Interdisciplinary Learning Environment.” *Poster presentation at ICLS 2022, the 16th International Conference of the Learning Sciences.* 6-10 June 2022, Hiroshima, Japan: International Society of the Learning Sciences. Proceedings published on pp. 2058-2059, here:  
<https://www.dropbox.com/s/ws5sdcfi72aykj1/ICLS2022%20Proceedings.pdf?dl=0>
- “Developing Entrepreneurial Thinking in an International & Interdisciplinary Learning Environment.” *Lecture session at The Third Mission: International Virtual Conference on Teacher Education in Social and Environmental Context.* 7 December 2021, MOFET Institute, Tel Aviv, Israel. Abstract published on:  
<https://virtual.oxfordabstracts.com/#/event/2333/program?session=32234&s=562>
- “From Teacher Professional Development to Teacher Personal-Professional Growth.” *Lecture session at the 7<sup>th</sup> International Conference on Teacher Education – The Story of Innovation in Teacher Education.* 24-26 June 2019, MOFET Institute, Tel Aviv, Israel. Abstract published on:  
<http://conf2019.macam.ac.il/find-abstract/>
- “Teaching Arithmetic and Fractions Based on Inherent Gamification: The Case of *Domino-Math* Approach.” *Round table at JCRME7, the 7th Jerusalem Conference on Research in Mathematics Education.* 28-29 January 2019, Lev Jerusalem College of Technology, Jerusalem, Israel. Proceedings published on:  
<https://www.jct.ac.il/media/4626/%D7%A1%D7%A4%D7%A8-%D7%AA%D7%A7%D7%A6%D7%99%D7%A8%D7%99%D7%9D-%D7%9B%D7%A0%D7%A17.pdf>  
(In Hebrew.)
- “Risk Management of STEM Education - The Strategic Risk: Teachers - Opportunities, Training and Social Status in Israel.” *Full paper presentation at WCQR2018, the 3rd World Conference on Qualitative Research.* 17-19 October 2018, Lisbon, Portugal. Proceeding published on:  
<https://proceedings.wcqr.info/index.php/wcqr2018/article/view/121>;  
<https://link.springer.com/book/10.1007/978-3-030-01406-3>
- “Strategic Analysis of Educational Systems: Risk Management of STEM Education in Israel.” *Paper session at IUT – Improving University Teaching, the 42nd International Conference on Improving University Teaching.* 18-20 July 2017, Tel Aviv, Israel. Proceeding published on:  
<http://www.iutconference.com/conference-program/>

## AWARDS & PRIZES

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- 2016** Graduates' Representative's Speech, Graduate Ceremony of Ph.D. Degrees  
Technion – Israel Institute of Technology  
[www.youtube.com/watch?v=77FcQwp\\_JV4](http://www.youtube.com/watch?v=77FcQwp_JV4)
- 2014** Kaplan Award for Outstanding Graduate Students  
Technion – Israel Institute of Technology  
<https://edu.technion.ac.il/>
- 2013-2016** Excellence Scholarship from the Faculty of Education in Science and Technology  
Technion - Israel Institute of Technology

## PROFESSIONAL EXPERIENCE

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### **Pedagogical Coordinator & Lecturer, Kibbutzim College of Education, Technology & Arts, Israel** *2012-Present*

- Pedagogical coordinator of REGEV – Education Ministry program of excellence for academic colleges
- Courses taught: “International Pedagogical Entrepreneurship – STEM Education as a Case Study” (in collaboration with Gdansk university, Poland); “Mathematics, Science & Knowledge”; “Development of Interdisciplinary Pedagogies - Multicultural as a Case Study” (in collaboration with Al-Qasemi college of education, Israel); “Mathematical Thinking - Geometric & Algebraic Aspects”; “Numbers, Operation & Groups”

### **Academic Program Coordinator & Lecturer, Faculty of Science Education, Al-Qasemi Academy, Academic College of Education, Israel** *2019-Present*

- Lecturer in bachelor's and master's level courses: “Contemporary Mathematics”; “Qualitative Research Methods”; “Research Seminar in Education”; “Multidisciplinary Thinking in Science & Mathematics”; “Microteaching - Innovative Approaches and Teaching Methods”; “Fostering Scientific Thinking”; “Vision and Educational Belief in At-Risk Classes”
- Program coordinator of “‘Meshalvim-Mishtalvim’ (‘Integrating-Integrated’): Integrating Arabic-Speaking Teachers in a Hebrew-Speaking School” – a program led by the Israeli ministry of Education
- Pedagogic instructor, focused on guiding students at practicum experience in high school for teaching mathematics, computer science and mechanical engineering
- Academic orientation coordinator, accompanying college faculty in research and academic writing

### **Strategic Consulting, K-12 STEM Center, Tandon School of Engineering, USA** *Summer 2019*

- Formative evaluation of the programs: “Cyber Security for Computer Science” (CS4CS); “Science of Smart Cities” (SoSC); “Creativity in Engineering, Science and Technology” (CrEST)

### **Research Center Coordinator, Seymour Fox School of Education, The Hebrew University of Jerusalem, Israel** *2018-2019*

- Coordinating the activities of the Center for Research on Teachers' Learning and Development in the 21st Century

**Lecturer, Talpiot, College of Education, Israel****2016-2019**

- Courses taught: “Qualitative Research Methods”; “Research Seminar in Education”; “Research Seminar in Mathematics Education”; “Educational Policy and Vision”; “Teaching Fractions in Elementary School”; “Geometry 1-2”; “Contemporary Mathematics”
- Pedagogic instructor, guiding students at practicum experience in high school for teaching mathematics

**Adjunct Lecturer, Faculty of Education in Science and Technology, Technion - Israel Institute of Technology, Israel****2014-2016**

- Courses taught: “Qualitative Research Methods”; “Teaching Skills and Methods”

**Lecturer, College of Science and Mathematics, Montclair State University, USA****2007-2011**

- Courses taught: “Calculus A”; “Applied Pre-calculus”; “Contemporary Mathematics”; “The Development of Mathematics”

**Mathematics Teacher, Champaign Unit 4 School District, USA****2006-2007**

- Courses taught: “Algebra 1”; “Geometry”

**Instructor, National Center for Mathematics Education, Technion - Israel Institute of Technology, Israel****2005-2006**

- Prepared and conducted a workshop at annual conference of Leading Math Teachers, April 2006
- Guided and instructed students, grades 7 to 12 on science school trips
- Conducted a workshop for high school math teachers on instructional materials in calculus

**Instructor, Ministry of Education, Israel****2005-2006**

- Taught teachers from 12 middle schools participating in the Israel Ministry of Education project: “Enhancement and Excellence”

**Senior Mathematics Teacher, Begin High School, Rosh– Ha’ain, Israel****1999-2005**

- Specialized in teaching the most advanced level of math to high school students
- In charge of preparation for the matriculation exams
- Mentor of novice teachers of math
- Applied innovative educational projects, including “Window to High Tech” – a program sponsored by The Joint Organization and The Ministry of Education

**High School Mathematics Teacher, Public & Private Schools, Israel****1990-1999**

- Taught mathematics for matriculation exams

