

## CURRICULUM VITAE AND LIST OF PUBLICATIONS

### PERSONAL DETAILS

Name: **Sagit Kedem-Yemini**

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### EDUCATION

- Ph.D. 2011 Ben-Gurion University of the Negev  
Industrial Engineering and Management  
Dissertation: *Definition of Project Modularity Concept*  
Supervisor: Prof. Gad Rabinowitz.
- M.Sc. 2002 Ben-Gurion University of the Negev  
Industrial Management, Business Major  
Thesis: *Schedule Management in Tool Install (Hook-Up) Projects*  
Supervisors: Prof. Gad Rabinowitz, Prof. Nava Pliskin
- B.Sc. 1993 Ben-Gurion University of the Negev  
Industrial Engineering and Management, Information systems Major  
Final Project: *Linear Bi-Criteria Knapsack Problem Solution*  
Supervisor: Prof. Moshe Even-Haim

## GRANTS & AWARDS

- 2022 IEOM Amatrol Innovation and Curriculum Development Award in recognition and appreciation of outstanding achievements and contributions and service in the industrial engineering and operations management profession. It was given at the 7<sup>th</sup> North American International Conference on Industrial Engineering and Operations Management, Orlando, Florida, USA (June 12-14, 2022).
- 2020 IEOM Teaching Excellency Award of IEOM Society International, given at the 5<sup>th</sup> North American International Conference on Industrial Engineering and Operations Management, Detroit, Michigan, USA (August 10-14, 2020).
- 2002 -2006 The Kreitman Foundation Fellowships Scholarship for Outstanding Doctoral Students (4 Year Grant).
- 1990,1991, 1992,1993 Certificate of Outstanding academic merit from the Faculty of Engineering for each academic year in B.Sc. Degree
- 1993 Award for Outstanding Final Student Project from the Faculty of Engineering
- 1993 Completion of B.Sc. in Industrial Engineering and Management with Highest Honors

## EMPLOYMENT HISTORY

- 2008 - **Tenured Lecturer** Logistics Department, Sapir Academic College. Classes include: Process Mining, Logistics Information Systems, ERP Systems, Layout and Facility Planning, Normative Decision Making, IS Design and Analysis, Data Analysis in Digital World (including developing this course content). Since 2015 service as Chief Academic Advisor for final projects as well.
- 2001 - **Adjunct Lecturer** Department of Industrial Engineering and Management, Ben-Gurion University of the Negev. Classes include: Qualitative Models, ERP Systems in the Industry (including developing this course from scratch), Information Technologies, Project Management, Implementation of ERP Systems, Oracle ERP Workshop.

- 2016 - **Adjunct Lecturer** Guiford Glazer Faculty of Business & Management (GGFBM), Ben-Gurion University of the Negev. Classes include: ERP Systems in the Industry, Project Management and final project guidance.
- 2001 - 2008 **Research Assistance** Department of Industrial Engineering and Management, Ben-Gurion University of the Negev. Responsibilities included collecting material, analysis, coding and literature reviews.
- 1997 - 2001 **Meissner-Baran**, Cleanrooms Design and Construction Management. The company managed the construction of Intel (FAB 18) – Kiryat Gat and Tower Semiconductors (FAB 2) – Migdal Ha'emek.  
**Last position – IT (Information Technology) Manager (CIO)**  
 Design, built, and maintained all company networks, connecting 4 sites in Israel and connected to partners worldwide, planning and implementing information databases and interfaces.  
 Previous Positions:  
**Schedule Team Manager – Intel FAB 18 Kiryat-Gat**  
 Schedule build-up and control, Creation of Management Schedule Indicators and suggestions for corrective actions.  
**Document Control Manager – Intel FAB 18 Kiryat-Gat**  
 Built and maintained Information Data Center), including AutoCAD drawings, Project Change-Orders, Project Contracts etc.  
**Material Team Co-Manager – Intel FAB 18 Kiryat-Gat**  
 Responsibilities Included: purchasing, logistics, warehouse and ERP system management. The team included 18 workers, and the position required representation of the company in front the client in daily and weekly presentations.
- 1992 - 1997 **Research Assistance** Department of Industrial Engineering and Management, Ben-Gurion University of the Negev. (1) Teaching assistant for: Introduction to information systems, Database systems, Systems Design and Analysis, Operation Research, Programming and Statistics. (2) Lecturer for: Database Systems. (3) Researcher in two different studies that were published.
- 1996 - 1997 **Lecturer at Sapir College** : Quantitative Models, Computerized Systems.
- 1989 - 1992 **Lecturer at Machon Yeda, Beer-Sheva**. University Preparatory Course for Psychometric Exam (similar to GMAT exam).

## PROFESSIONAL ACTIVITIES IN THE ACADEMIA

### Committees

- 2014 - **Head of Teaching Committee Logistics Department, Sapir Academic College** – This committee determined the syllabus of the department, synchronized between courses and selected which students would not continue their studies.
- 2014 - **Academic Library Referent Logistics Department, Sapir Academic College** – Responsibility of review and recommendation of new books, approve purchases and encourage student and lecturers to use academic library facilities.
- 2015 - **Liaison officer to Final Project Department, Sapir Academic College**  
Approval, review and guidance of final projects, selection of best projects and academic support. I act as Chief Academic Advisor to the Final Projects Department. The role includes various degrees of involvement in all Logistic Department final projects (about 50 projects per year), academic student's guidance, mentoring seminar lecturers, project's supervision on and grading all seminars.

### Research in progress

Using Process Mining to examine academic promotion within scholar institutes in Israel- ethnographic visualization – with Prof. Tami Razi and Dr. Sigal Nagar-Ron - current status – proposal submitted for grant.

Process Mining in Health Organizations - Maccabi Health Care Fund competitive grant), The case of Skin Lesion (Current state – in process, data collection phase)

Using Process Mining to examine supplementary programs in mathematics and their effect on the course of undergraduate studies of students in faculties of Natural Sciences and Engineering Sciences (with Prof. Gad Rabinowitz, Dr. Itay Pollak and Yifat Menashe, current state – in process, data collection phase)

The Impact of Information System Adoption in Elementary School – Case Study (Current state – Paper in writing)

Development of Computerized Expert System to assign students to classes (Current state – Paper in writing)

**Fourth-year projects supervision:** Since 2004 I have been supervising projects submitted by Industrial Engineering and Management fourth year students. These year-long projects included research design, development of hypothesis, literature survey and implementation of research in organizations. Projects were conducted with cooperation and for the needs of such companies as Intel, Dead Sea Works, IMI (Israeli Military Industries). Supervision of the projects required design of the project format and deliverables, development of standards and evaluation methods, as well as meetings with student teams and approval of deliverables.

## **Courses Taught**

**Process Mining - Analysis in the New World – International course** – both Sapir Academic College and CalPoly SLO. This course covers the topic of Process Mining, a new discipline based on data science and process science. It allows users to reconstruct, analyze and improve business processes based on event logs from transactional IT systems like SAP or Oracle. Based on PBL with mixed groups the course introduces PM, then utilize Disco (Fluxicon) to learn the basics. Finally, we introduce Celonis, with an addition of it's self-learning platform and badges.

**Layout and Facilities Planning-** Undergraduate, Sapir Academic College. Mandatory course in the Logistics Department, topics covered: Introduction, Estimation of Resources, Layout Planning Models and Design Algorithms, SLP, CRAFT, ALDEP, Covering Problems, Allocation Problems, Line Balancing issues, Evaluation and Selections of Alternatives.

**Normative Decision Making** - Undergraduate, Sapir Academic College. Mandatory course in the Logistics Department, Topics covered: Introduction, Alternative's Comparison, Cost-Benefit Concept, Multi Criteria Analysis, AHP method (Saaty), Decision Making Under Uncertainty, The Value of Perfect Information (PI) and Partial Information, The Prospect Theory and Risk Attitude, VNM, Expected Value Apposing Expected Utility, Introduction to Game Theory (Zero Sum Game, Prisoner's dilemma, Nash Equilibrium), Problems Solving with Mixed Strategies, Shared games, Collaborating Games, Shapley's Rule.

**Logistics Information Systems-** Undergraduate, Sapir Academic College. Mandatory Course in the Logistics Department, Topics covered: Enterprise-wide Applications, Introduction to ERP, includes on-hand experience with Priority ERP System (Procure to Pay Process), In addition we discuss new trends such as CRM, Supply Chain Management, special industry applications, Intranet and knowledge management.

**IS Fundamentals** - Undergraduate, Ben-Gurion University of the Negev. This course has evolved over more than a decade. I began co-teaching it in 1993 and have helped adjust the syllabus to current trends.

Topics covered: IS/IT and organizations, types of IS, Computer Hardware and Software, Networks and Communications, ERP, CRM, Internet, Intranet, e-Business, e-Commerce, IS/IT Analysis, Design, and Implementation, IS/IT and Organization Change, Strategic IS/IT, IS Strategy and Management, IT/IS Security.

**Information Systems in Industry** – Advanced Undergraduate, Ben-Gurion University of the Negev

I designed and taught this course myself years 2001-2005. The course was for last year students of Industrial Engineering and Management, it hosts top guest lecturers from various industries. Topics covered: Enterprise-Wide Applications, ERP, CRM, Supply Chain Management, Special Industry Applications, Intranet and Knowledge Management, Enterprise IT security Policy and IS/IT Management. It included hands-on experience with both Oracle Applications and SAP.

**ERP Workshop** – Advanced Undergraduate, Ben-Gurion University of the Negev

I designed and taught this course myself since 2005. The course is for third year students of Industrial Engineering and Management. It uses **Oracle Applications** Software to demonstrate major and common business processes. The workshop was a mandatory course for 7 years and included sections on logistics, procurement, warehouse modules, as well as finance and the HR (Human Resources). In addition to teaching the course I acted as the system administrator for the ERP system and interacted with technical staff and outsourced experts.

**Organizational IT Applications** for IAF (Israeli Air Force) Cadets at the Academic Program for IAF (Israeli Air Force) Flight Course Cadets, under Ben-Gurion University of the Negev and Advanced Undergraduate, at Ben-Gurion University of the Negev.

I taught and designed this course myself since 2004. Topics covered: Enterprise-Wide Applications, ERP, CRM, Supply Chain Management, Special Industry Applications, Database and Data Warehouse, Intranet and Knowledge Management, Enterprise IT Security Policy, IS/IT management, Total Cost of Ownership, Outsourcing and ASP, Data Mining versus Process Mining. It includes on-hand experience with Oracle Applications ERP system and Disco (Process Mining Software).

**Implementation of ERP Systems** - Advanced Elective Graduate, Ben-Gurion University of the Negev, for Production and Operations Systems Track.

I designed and taught this course myself since 2008. Topics covered: Enterprise-Wide Applications, Business Process Introduction, ERP Systems, CRM, Supply Chain Management, Special Industry Applications, Database and Data Warehouse, Intranet and Knowledge Management, Enterprise IT Security Policy, IS/IT Management, Total Cost of Ownership, Outsourcing and ASP. It includes hands-on experience with Oracle Applications ERP system and SAP ERP system.

**Project Management** - for IAF (Israeli Air Force) Cadets at the Academic Program for IAF (Israeli Air Force) Flight Course Cadets, Ben-Gurion University of the Negev. Given

as well as Advanced Undergraduate, Business School, Ben-Gurion University of the Negev since 2015.

Topics covered: PM History, Project Selection, Time Estimation, Scope Definition, WBS, Gantt and PERT, CPM, Shortcuts and Resource Planning, PMBOK, Project Financial Management, MS Project Lab Hand-On, PM Roles and Responsibilities, Control Systems, EVM, TOC and Risk Management.

**Data Analysis in Digital World** - Undergraduate, Sapir Academic College elective course, since 2016. This course is for students oriented for projects in industry to improve skills in data analysis. Topics covered – Data Types, Business Process Principles, Data Collection, Statistical Analysis, Basic Data Mining Techniques, Process Mining. It includes hands-on experience with Disco Software (Fluxicon).

**Advanced Topics in Logistics Information Systems** - Undergraduate, Sapir Academic College, elective course, since 2017. Topics covered – Introduction to IS, Data Types, Business Process Principles, BPR, Data Collection and Analysis, Data Measures, Basic Data Mining Techniques, Process Discovery, Process Mining. It includes hands-on experience with Disco Software (Fluxicon) and Bizagi Moduler.

**Database Systems** – Advanced Undergraduate, Ben-Gurion University of the Negev. Topics covered – Introduction to Database Systems, Relational Model, Normal Forms, Relational Algebra, Structured Query Language (SQL), Entity Relationship Model (ER) versus Binary Relationship Model (BR), Indexing, , Storage and Recovery.

## **PROFESSIONAL SPECIAL ACTIVITIES**

- 2019 - Faculty advisor for IEOM Student Chapter at Sapir Academic College. This chapter is the first Israeli Student Chapter of the organization.
- 2018-2022 International Scientific Committee Member GJCIE 2019 - Global Joint Conference on Industrial Engineering and Its Application Areas 2019. The GJCIE 2019 is composed of three co-located conferences: the 4th Global Conference on Industrial Engineering (GCIE), the 5th Global Conference on Healthcare Systems Engineering and Management (GCHSEM), the 6th Global Conference on Engineering and Technology Management (GCETM).
- 2015 - Member of JITCAR Editorial Review Board (publisher is Routledge, Taylor & Francis, since 1798). My duties include reviewing submitted papers and evaluate it professionally.
- 2014 Academic conference organization committee – The Main Logistics and

Purchasing Academic Conference – joint venture with Israeli Purchasing and Logistics Association – Held in Sapir Academic College.

### **COMPETITIVE GRANTS**

- 2019 Malag Grant – Council of Higher Education Grant, Using Process Mining to examine supplementary programs in mathematics and their effect on the course of undergraduate studies of students in faculties of Natural Sciences and Engineering Sciences. With Prof. Gad Rabinowitz, Dr. Itay Pollak and Yifat Menashe from Ben Gurion University – Active, Due to 2021.
- 2016 Maccabi Health Care Fund, Process Mining in Health Organizations – The case of Skin Lesion.

### **SCIENTIFIC PUBLICATIONS**

#### **Refereed Journals**

Katz, A., & Kedem-Yemini, S. (2021). From classrooms to Zoom rooms: preserving effective communication in distance education. *Journal of Information Technology Case and Application Research*, 00(00), 1–40. <https://doi.org/10.1080/15228053.2021.1922248>

Sagit Kedem-Yemini & Adi Katz (2021) Implementing online-testing – cases in higher education in Israel, *Journal of Information Technology Case and Application Research*, 23:2, 83-114, DOI: 10.1080/15228053.2021.1882742

Kedem-Yemini, S. (2020). Analysis of Cargo Release Services with Process Mining. *International Journal of Industrial Engineering and Operations Management*, 02(01), 1–13. <https://doi.org/10.46254/j.ieom.20200101>

Sarfati H., Bachmat E. and Kedem-Yemini S. (2007). Parameter setting and exploration of TAGS using a genetic algorithm. *2007 IEEE Symposium on Computational Intelligence in Scheduling (CISched)*. Hawaii, HI. pp. 279-285.

#### **Referred Conference Publications**

Biton O., Kedem-Yemini S., and Navon T. (2020). Demonstration of Supply Improvement of Crop Protection Materials. *Proceedings of the 5th NA Conference on Industrial Engineering and Operations Management (IEOM)*, Detroit, USA. Proceedings + Oral Presentation.

Tiybi P., Shepelev I., Kedem-Yemini S., and Karpek Y. (2020). Stock Costs Reduction – Case Study at a Spirit Company. *Proceedings of the 5th NA Conference on Industrial*



*Engineering and Operations Management (IEOM)*, Detroit, USA. Proceedings + Oral Presentation.

Markevitch, I., Avraham, E., Malka, K., Gimelberg, C., & Kedem-Yemini, S. (2020). Encouraging Rare Blood Type Donations in the Bedouin Community in the South of Israel: A Strategic Plan. *Proceedings of the 5th NA International Conference on Industrial Engineering and Operations Management*, 3883–3839. Proceedings + Oral Presentation.

Kedem-Yemini S., Mamon N. S. and Mashiah, G., 2018, "An Analysis of Cargo Release Services with Process Mining: A Case Study in a Logistics Company", *Proceedings of the International Conference on Industrial Engineering and Operations Management (IEOM)* Washington DC, USA, September 27-29. **Best Paper Award**. Proceedings + Oral Presentation.

Kedem-Yemini, S., 2018, "Process Mining in Maman Cargo Release Handling Services", *12th ILAIS Conference*, Ashdod, Proceedings + Oral Presentation.

Kedem-Yemini, S. and Rabinowitch G., 2010, "Modularity Measure at Project Management", *16th Conference of Industrial Engineering and Management*, Tel-Aviv, Proceedings + Oral Presentation.

Kedem-Yemini, S. and Heart T., 2010, "Implementation for e-Learning for Teaching ERP System – Oracle Applications", *16th Conference of Industrial Engineering and Management*, Tel-Aviv, Proceedings + Oral Presentation.

Sarfati H., Bachmat E. and Kedem-Yemini S., 2006, "Parameter setting and exploration of TAGS using a genetic algorithm", *2007 IEEE Symposium on Computational Intelligence in Scheduling (CISched)*, Hawaii – Proceedings.

Kedem-Yemini S., 2005, "Case study – Implementing ERP for Educational purposes", *10th Conference of the Asia Pacific Decision Sciences Institute (APDSI)*, Taipei, Taiwan, (refereed conference) – Proceedings + Oral Presentation.

Kedem-Yemini S., Pliskin N., Goltz S., and Mor S., 2005, "Evaluating Satisfaction of ERP Users in Small and Medium-seized Enterprises", *10th Conference of the Asia Pacific Decision Sciences Institute (APDSI)*, Taipei, Taiwan, (refereed conference) – Proceedings + Oral Presentation.

Kedem-Yemini S., Pliskin N., Mindlin L., and Ram M , 2005, "Evaluating User Satisfaction with ERP System at Dead-Sea Works", *10th Conference of the Asia Pacific Decision Sciences Institute (APDSI)*, Taipei, Taiwan – (refereed conference) - Proceedings + Oral Presentation.

Kedem-Yemini S., Rabinowitz G. and Pliskin N., 2004, "Characteristics of Tool-Install Fab Build-Up Projects", *4th International Conference on Construction Project Management (ICCPM4)* Singapore, (refereed conference) - Proceedings + Oral Presentation.

Kedem-Yemini S., Rabinowitz G. and Pliskin N., 2004, "Characteristics of Tool-Install Fab Build-Up Projects", *13th Conference of Industrial Engineering and Management, Tel-Aviv*, Proceedings + Oral Presentation.

### **Conferences Presentations** (without proceedings)

Kedem-Yemini S., Freed T., 2022, "Developing an International Course – Overcoming Challenges to Success", *7<sup>th</sup> North America IEOM Society Conference in Orlando, Florida, June 11-14, 2022*. Plenary Invited Presentation,

Kedem-Yemini S., 2021, "Can we use Process Mining to analyze online Course Activity?", *the First Asia Pacific Conference on Industrial Engineering and Operations Management, Harbin, China, July 9-11, 2021*. Oral Presentation.

Kedem-Yemini S., 2021, "Process Mining Application in Education", *the 11th Annual International Conference on Industrial Engineering and Operations Management (IEOM)*, Singapore, Singapore, March 7-11. Oral Presentation.

Kedem-Yemini, S., 2018, Paper-athon Track of International Conference on Information Systems (ICIS) 2018, San Francisco – Oral Presentation.

Kedem-Yemini, S., 2017, "How to build a "good" test to SAP related curriculum and to ERP systems related topics", *22<sup>nd</sup> SAP Academic Conference EMEA, Germany* – Oral Presentation.

### **Reviewer**

Kedem-Yemini, S., 2015, Perspectives in Business Informatics Research: 14<sup>th</sup> International Conference, BIR 2015, Tartu, Estonia, August 26-28, 2015, Proceedings

Kedem-Yemini, S., 2014, Perspectives in Business Informatics Research: 13<sup>th</sup> International Conference, BIR 2014, Lund, Sweden, September 22-24, 2014, Proceedings

### **Posters**

Kedem-Yemini S., 2012, "Students' Personal Characteristics Influence Upon Success on E-Learning Course", Poster Presentation at 18th Annual Sloan Consortium International Conference on Online Learning, Orlando, Florida.

### **Invited Seminars**

Kedem-Yemini S., 2019, Cal Poly IME Seminar, "Application of Process Mining In Logistics Services".

Kedem-Yemini S., 2019, SCE IE&M Seminar, "Application of Process Mining In Logistics Services".

Kedem-Yemini S., 2010, Ben Gurion IE&M Seminar, "Definition of Project Modularity Concept".

### **Awards nominations**

Kedem-Yemini S., Shem-Tov Y., Ben-Abu Y., Mamon N., Mashiah G., "Setting Service Standards for Logistics Cargo Handling using Process Mining in Maman Group Israel", Nomination to Process Miner of the Year 2017 award in Process Mining Camp, Eindhoven.

### **SOCIAL AND OTHER SPECIAL ACTIVITIES**

2009 - 2010 Project Manager - Student Entrepreneurship in the Negev- Implemented in 5 academic centers in the Negev. Project Budget over 1M NIS, Funded by Israeli Ministry of Labor.

2007 - 2009 Project Manager – Social Project - "Reduction of Digital Gaps" for Microsoft and Negev Development Authority- Implemented for 2 years in 43 Locations and 55 teachers. Project Budget over 500,000 NIS

2005 - 2007 Project Manager - Social Project – Enabling Technology Access for Handicapped - for Microsoft and "Ilan" (Handicapped Association) – Implemented for 3 years in 12 Locations countrywide.

2010 - 2017 Member of Lehavim Central PTA, responsible for computers and communication committee.

### **ARMY SERVICE**

1987 – 1989 Education and tour guide ("Havaya") – The education representative in the Israeli Officers Training Center. Finished the guide course with outstanding honors.

### **LANGUAGES**

Hebrew – Fluent, English – Fluent, Portuguese - Spoken