

AMIT GAL

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Academic Qualifications

- Since 2007 **Ph.D. Student, Management**, Wharton School, University of Pennsylvania, USA.
- 2004 **M.A. Musicology** (Magna Cum Laude), Hebrew University of Jerusalem, Israel.
Concentration: Music Cognition, Musical semiotics, 20th century Music Theory
Thesis: A cognitive-computational model for musical similarity and a methodology for its verification as a tool for researching musical concepts (Thesis written in Hebrew).
- 1996 **B.Sc. Mathematics** (Magna Cum Laude), Hebrew University of Jerusalem, Israel.
Concentration: Mathematical Logic, Game Theory

Research Interests

I am interested in how collective behaviors emerge from and affected by individual actions and interactions, focusing mainly on small groups in organizations. I'm interested in the formation of organizational routines, the development of shared or distributed cognitions and the complex ways in which individuals can contribute to collective outcomes. I'm especially interested in sensemaking processes and how meaning is created and communicated through talk and production of texts.

Conference presentations and other creative output

- Gal, Amit (2005), "Toward an analysis of orchestration – a semiotic approach", Conference on Interdisciplinary Musicology (CIM'05), Montreal, Canada.
- Hellman, Ziv & Gal, Amit (2003), "Structural conflict avoidance in collaborative ontology engineering", in: Camp, O.; Filipe, J.B.; Hammoudi, S.; Piattini, M.G. (Eds.) Enterprise Information Systems V, Kluwer Academic Publisher, Netherlands, pp. 216-225
- Gal, Amit (2002), "The creative musical workshop – not for musicians only", Conference on "Arts in Education", Tel Aviv (in Hebrew)
- Gal, Amit, Quintet No.2 for Oboe, Horn, Guitar, Viola and Piano, commissioned and performed by Kaprizma Ensemble, Jerusalem Music Centre, Jerusalem, 11/2000. Broadcasted on Israeli radio.
- Gal, Amit, Quintet No.1 for Flute, Oboe, Clarinet, Horn and Bassoon, commissioned and performed by Kaprizma ensemble, Targ Music Centre, Jerusalem, 01/1999.

Professional Experience – high-technology industry

- 11/2004-3/2007 **CADENCE DESIGN SYSTEMS, Israel & UK**
Senior Engineering Manager
- Led a strategic innovative project, from its conception to its initial release.
 - Managed a geographically distributed team of 6 developers.
 - Providing technical leadership affecting the work of up to 15 developers and collaborators. Responsibility for all design and algorithms.
 - Developed state-of-the-art algorithms for constraint solving in the context of automatic verification of hardware designs, resulting in 2 patent applications.
 - Collaborated with strategic customers and other teams within Cadence worldwide.

- 02/2002-12/2002 **UNICORN SOLUTIONS Ltd., Israel**
Chief mathematician
- Defined formal models and meta-models for the company's products. Responsible for the alignment of models with requirements and design.
 - Researched new methodologies for data modeling, especially for collaborative environments in large organizations.
 - Developed several algorithms for data manipulation.
 - Managed one junior mathematician.
- 11/1998-12/2000 **TRADEUM Ltd. (later acquired by VerticalNet Inc.), Israel**
Algorithm developer and team leader
- Joined this start-up company as the first programmer.
 - Developed from scratch a sophisticated matching system and query language, that became the heart of an electronic B2B trading system.
 - As the company grew, I recruited and assumed responsibility for the algorithm development team (team size ranged from 1-4 developers).
- 08/1996-12/1997 **COMPUGEN Ltd., Israel**
Research team member
- Developed novel algorithms for the analysis of protein and DNA structures. Self study of advanced concepts in molecular biology.

Professional Experience – Teaching & Education

- 10/2002-08/2004 **HEBREW UNIVERSITY OF JERUSALEM, Israel**
Teaching assistant
- Taught an undergraduate class in musicology. (4 semesters)
 - Initiated a free improvisation extra-curricular workshop for undergraduates.
 - Presented 3 papers in the departmental research colloquium
- 01/1998-06/1999 **OPEN UNIVERSITY, Israel**
Teaching assistant
- Taught college level courses in Calculus and Statistics (4 semesters)
- 08/1993-07/1996 **ISRAEL ARTS & SCIENCES ACADEMY, Israel**
Student Counselor
- Worked with a group of 25 gifted youngsters (aged 16-18) in a boarding school. I was responsible for their well being, providing them, individually and as a group, with support and consultation on both academic and personal matters.
- 01/1989-10/1991 **Duty Service, Israel Defense Forces**
- Served as instructor in training programs for logistics officers

Other activities

- Initiated and organized a voluntary community project in which Cadence employees helped children with special needs. I also conducted an ongoing improvisation workshop to a group of these children.
- Conducted several team building and leadership skills development workshops using musical improvisation.
- Participated in the "Continuing Professional Development" course at Guildhall School of Music and Drama, London (part time between 10/2000-08/2001), where I specialized in group improvisation and workshop leading skills.
- A keen hiker and mountaineer, I regularly travel and hike in remote places, including Mt. Kilimanjaro, the Himalayas and mountain ranges in Europe, New Zealand, U.S.A, Ethiopia and the Middle East.