

# tomgurion

Music / Tech / Interaction

## contact

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## programming

**python:** including django,  
and parts of the scipy  
stack

**elixir:** including phoenix

**makers tech:** max,  
pure data (and libpd),  
arduino, processing

**web:** javascript, vue.js,  
jquery, d3, bootstrap,  
web audio API

**tools:** git, docker

## education

- 2016–today **Doctor** of Media and Arts Technology Queen Mary University of London
- 2011–2015 **Master** of Music Technology Bar-Ilan University  
*An Audio-Only Augmented Reality System for Social Interaction*  
This thesis explores the potential for using modern technologies to create spatial interactive music consumption experiences for non-professional musicians, where the user' social interaction is the main influence over actually heard music.  
Developing Android applications and Bluetooth based indoor positioning system as part of the research.  
Courses GPA: 94. Thesis grade: 100.
- 2010–2011 **Diploma studies** in the Music Technology programme Bar-Ilan University  
GPA: 97.
- 2006–2011 **Bachelor** of Mathematics and Music Haifa University  
Undergraduate of the department of mathematics excellence programme.  
GPA: 90.

## experience

- 2014–2016 **Python management server developer** XtremIO  
Working on the management server of an enterprise storage array. Developing automated maintenance procedures such as system upgrades, hardware replacements, restores, migrations, etc.. Implementing high-level and interactive communication protocols between clients and server.
- 2014 **Python and Django tutor** Freelance and with Udi Oron  
Trainings for new programmers, in hi-tech companies and for independent developers. Responsible for developing training materials as well as assisting and teaching in class.
- 2014 **Full-stack web developer** Shachar web  
Developing ERP web application with python and django on the server side. html, javascript and jquery on the client side.
- 2012–2014 **Music cognition research assistant** Freelance  
Generating stimuli, executing music cognition experiments, and analysing experiments data.  
Working with Prof. Zohar Eitan from Tel-Aviv University and Dr. Roni Granot from the Hebrew University.
- Generated audio stimuli using Java according to requested mathematical formulas (e.g. Shepard tones).
  - Developed GUI application to run music cognition experiments with Python.
  - Analysed recorded music using Vamp plug-ins and python packages for audio features extraction.

- 2009–2014 **Math tutor** Freelance and at HighQ  
 Teaching mathematics from junior high to high school including preparation for matriculation exams. Teaching BSc students linear algebra A and B, calculus A and B, discrete mathematics, probability, statistics and more. Teaching classes at HighQ toward 4 units matriculation exams.
- 2010–2014 **Marketing director** Galilee Bedouin Camp Lodge  
 Building and maintaining Wordpress (obsolete) and statically generated business sites. Promoting the business through Israeli and international tourism portals and managing customer relations.
- 2012–2013 **Lecture series organizer** Bar-Ilan University  
 Organizing lectures of invited speakers on the subjects of music technology, electronic music and post-modern and interactive art in the Music and Technology Programme of Bar-Ilan University Music department.
- 2006–2008 **Studio and computer lab assistant** Haifa University  
 Taking part at building the computer lab of the music department and being responsible for functionality of the lab and the studio. Working as a recording and mixing engineer in different projects by the music and the art departments.

## publications

- 2015 **An Audio-Only Augmented Reality System for Social Interaction**  
 Gurion, T., Thesis. Bar-Ilan University Music Department. Ramat Gan, Israel. 2015.
- 2013 **Audio-Only Augmented Reality System for Social Interaction**  
 Gurion, T. and Jacoby, N., HCI International 2013 – Posters' Extended Abstracts. Communications in Computer and Information Science Vol. 373. Springer Berlin Heidelberg, pp. 322–326.

## conferences

- 2016 **Talk** on the Krihelinator PyWebIL 55, Tel-Aviv  
 Presenting the motivations for project, the architecture, and reasons and advantages of choosing elixir.
- 2013 **Talk** on masters thesis International Symposium on Technology and Society, Toronto
- 2013 **Poster** of masters thesis HCI International, Las Vegas
- 2013 **Live demo** of MusiGali Brain Tech Israel, Tel-Aviv  
 Participants in the conference were invited to experience an EEG controlled musical environment.

## awards

- 2009 **GU8 Consortium Mathematics Contest** The Global U8 Consortium  
 Achieved a silver prize.