Fadi Al-Ghawanmeh

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Education

- Master's degree of Music in Music Technology (Ranked Excellent)- New York University, USA (2013).

  Thesis :"Automatic Accompaniment to Arab Vocal Improvisation 'Mawwāl"
  Website: http://www.mawaweel.com/

- Bachelor's degree of Fine Arts in Music-Arab Flute Performance (Excellent)-The University of Jordan, Jordan (2010).

- Bachelor's degree of Computer Engineering (Very Good) -The University of Jordan, Jordan (2008).

- General Secondary Certificate (Tawjihi) 94.3%, Jubilee School/King Hussein Foundation. (National school for gifted students), Jordan (2003).

Work Experience

- Faculty Member in Music Department, the University of Jordan (Since Jun. 2014)
- Full-time lecturer in Music Department, the University of Jordan (Jan. 2013- Jun. 2014).
- Adjunct lecturer at the American University of Madaba (Since Sept., 2016).
- Adjunct lecturer at the Jordan Academy of Music (Since Oct., 2013).
- Independent researcher (2009-2011).
- Teaching assistant, the University of Jordan(2010).
- Nay player with local groups. Amman/Jordan (2005-2008).

Educational Courses (Apart from obtained academic degrees)

- *Technology:*

- Advanced Statistics for Scientific Research, University of Jordan (2014).

- Digital Musical Signal Analysis, Berlin University of Technology, Germany (2009).

- Programming System on Chip (PSoC)/IEEE(2006).

  - *Culture and Administration:*

- Digital Economy, CRM, and Individualism -Bogazici University. Istanbul-Turkey (2008).

- IT for Sustainable Development of Cultural Heritage - Munich University of Technology. Germany(2006).

- History of Germany and Europe- Munich University of Technology (2006).

- Training of Trainers in Leadership-Islamic Conference Youth Forum. Baku-Azerbaijan (2006).

- Cultural administration-Cultural Resource Organization/Belgium. Amman-Jordan (2006).

- Entrepreneurship -Bogazici University. Istanbul-Turkey (2005).

- Management of Youth Projects-Youth Leadership Programme-Cairo-Egypt (2002).

Languages and Tests

- Arabic, mother tongue.

- English, Fluent. TOEFL iBT score 92 (about 580 paper-based) (2010)

- French, Very good.

- German, Basics.

- GRE Test 1060   (Quantitative 730/800) (2009)

International Participation

- The International Conference on Musical Cultures, University of Hull, UK, April 3-5, 2017

- The 9th Conference on Interdisciplinary Musicology – CIM14, Berlin, Decemberp4-6, 2014

- The 2009 International Computer Music Conference, Montréal 16-21 August 2009

- World Congress on Engineering, WCE 2009. London, U.K., 1-3 July, 2009

- The Musical Festival of Souse for Universities, Souse/Tunisia (2004) and (2008)

- The Eleventh Conference of Students Creativity- Association of Arab Universities. Latakia, Syria (2008)

- Music and Theater Youth Meeting. The Euro-Mediterranean Programme. Tarto/ Estonia (2006)

- Feasibility visit for the organization of Youth Activities- Arab Youth Forum. Tunisia&Algeria(2006)

- Leading the Jordanian Musical team participated in "The Common Show", Euro-Mediterranean

project. Cairo/Egypt (2005)

- International Youth Meeting of the arts. The Euro-Mediterranean Programme. Bordeaux/France (2004)

- The international Work Camp, Hurgada/Egypt(2003)

- The musical festival of Sultan Qabus University,Muskat/ Oman (2003).

- The Collective Singing Festival, Tripoli/ Lebanon (2002).

- The Rainbow Bridge Camp for Peace, together with international political and cultural leaders, Poland (2001).

Awards, Scholarships, and Achievements

- Full-Month Erasmus Mundus staff-exchange scholarship to Lorraine Research Laboratory in Computer Science and its Applications (2016).

- Four-Month Scientific visit in Lorraine Research Laboratory in Computer Science and its Applications, financed by the University of Jordan (2015).

- Erasmus Mundus staff-exchange full scholarship to the University of Bologna, Italy (October 2013).

- Full Scholarship from The University of Jordan to pursue Master's Degree in Music Technology in New York University (2011).

- Erasmus Mundus Undergraduate-Exchange full Scholarship to Berlin University of Technology/Audio Communication Department (2009).

- First chair prize of The National Technology Parade, E-Learning theme. Jordan (2008).

- Third chair prize of The Contest of The Eleventh Conference of Students Creativity-Association of Arab Universities. Latakia, Syria (2008).

- Partial scholarship for the Summer-School at Munich University of Technology (2006).

- First chair prize of The Youth Creativity Contest for Music/ The Ministry of Culture (2004).

- Third chair prize of the Musical Contest of the Ministry of Education, and First chair price for Amman Governorate (2003).

- Qualified for the final stage of The National Olympics for Mathematics, and the second stage for physics/ Ministry of Education (2002).

Projects & Funds

- TRAM: Translating Arab Music (research initiative toward using machine translation methods to propose an automatic accompaniment to Arab vocal improvisation " Mawwāl"). Project Manager and research team co-leader. Fund (20k Euros) by the Agence Universitaire de la Francophonie (2016-2018).

- Designing Compositional Algorithms for an Improved Automatic Accompaniment to Arab Vocal Improvisation "Mawwāl". Project Manager and research team leader. Fund (21K $) by the University of Jordan and the Arab Fund for Arts and Culture (AFAC), (2014-2015).

- Digital Melody Indexing of Jordanian Musical Libraries. Project Manager and research team co-leader. Fund (40K $) by the European Commission and Shoman Foundation (2008-2009).

Publications

Journals' articles:

1. Al-Ghawanmeh F., Al-Ghawanmeh M. and Abed M. Real-Time Maqam Estimation Model in Max/MSP Configured for the Nay (2016). *International Journal of Communications, Network and System Sciences.* 09 (02) , pp.39-52. Delaware (USA): Scientific Research Publishing.

2. Al-Ghawanmeh F. & Shannak Z. (2015) Automatic Accompaniment to Arab Vocal Improvisation: From the Technical to the Commercial Perspectives. *Journal of Software Engineering and Applications.* 8(1) pp. 16-25. Delaware (USA): Scientific Research Publishing.

3. AL-Ghawanmeh, F., , R. & AL-Ghawanmeh, M. (2014). Proposing a Process for Using Music Analysis Software to Improve Teaching Authentic Arab Singing and Ornamenting. *International Journal of Humanities and Social Science.* 4(6). Los Angeles (USA): Centre for Promoting Ideas.

4. Tayseer, A., Haddad, R., Sukkarieh, H. and Al-Ghawanmeh, F. (2014). "Modes (Maqamat) in Contemporary Arab Songs". *Dirassat Journal of Human Sciences,* 41(1),pp. 598-611 Amman (Jordan): University of Jordan. *(In Arabic)*

5. Haddad, R., AL-Ghawanmeh, F., and AL-Ghawanmeh, M. (2010)." Educational Tools Based on MIR System for Arabian Woodwinds", *Journal of Music, Technology and Education*, Volume 3.1. Bristol (UK) :Intellect

6. Al-Taee, M., Al-Ghawanmeh F. (2010). Analysis and Features Recognition of Arabian

Flute (Nay) Musical Tones, *Jordan Journal of the Arts*, Vol. 3(2) pp. 95-110. Irbid (Jordan): Yarmouk University. *(In Arabic)*

7. Al-Taee, M., Al-Ghawanmeh, M., Al-Ghawanmeh F., and Omar, B. (2009) Analysis and Pattern Recognition of Arabian Woodwind Musical Tones Applied to Query-By-Playing Information Retrieval. Published in the Journal: *Lecture Notes in Engineering and Computer Science*. Volume: 2176- Issue: 1**,** Hong Kong.

8. Al-Momani, M. & Al-Ghawanmeh, F. The Impact of an Arab-Influenced Piano Curriculum on Students with an Arab Background. *International Education Studies*. Toronto: Canadian Center of Science and Education. (Accepted with minor edits).

Conferences' papers:

9. Al-Ghawanmeh, F., Al-Ghawanmeh, M., Haddad, R. and Nsairat N. (2017). Adhan as an Improvisation Material toward Better Educational Process: Bridging the gap between educators, practitioners and students from both Sharia and music backgrounds". Abstract in the International Conference on Musical Cultures, University of Hull, UK, April 3-5.

10. Al-Ghawanmeh, F., Al-Ghawanmeh, M. & Obeidat, N. (2014). Toward an Improved Automatic Melodic Accompaniment to Arab Vocal Improvisation, Mawwāl. *Proceedings of the 9th Conference on Interdisciplinary Musicology – CIM14,* Berlin, 4-6 December.

11. Al-Ghawanmeh, F., Jafar, I., Al-Taee, M., Al-Ghawanmeh, M., and Muhsin, Z. (2011) "Development of Improved Automatic Music Transcription System for the Arabian Flute (Nay)".   Proceedings of the 8th International Multi-Conference on Systems, Signals and Devices (SSD-11). Sousse, Tunisia, March 22-25.

12. AL-Ghawanmeh, F., AL-Ghawanmeh, M., Haddad, R. (2009). "Appliance of Music Information Retrieval System for Arabian Woodwinds in E-Learning and Music Education". Proc. of the International Computer Music Conference, ICMC09, Montréal 16-21 August.

13. Al-Taee, M., Al-Ghawanmeh, M., Al-Ghawanmeh F., and Omar, B. (2009). "Analysis and Pattern Recognition of Woodwind Musical Tones Applied to Query-By-Playing Information Retrieval". Proc. of the International Conference of Computer Science and Engineering, ICCSE_59, World Congress on Engineering, WCE 2009. London, U.K., 1-3 July.

14. Al-Taee, M., Al-Rawi, M., and AL-Ghawanmeh, F. (2008). "Time-Frequency Analysis of the Arabian Flute (Nay) Tone Applied to Automatic Music Transcription", Proc. of The 6th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-08), Doha, Qatar, March 31 - April 4.

Contributions not yet ready for publishing:

- Investigating Consonance of the Arab Flute (Nay) Tones Using Dissonance Curves.

- Translating Arab Music: Machine Translation Approach for the Accompaniment of Arab vocal Improvisation "Mawwal".

Audio Recording Samples:

- Arab Takht recordings as well as recordings of automatically accompanied vocal improvisations are available via the following link: http://www.mawaweel.com/AudioRecording/