Amir Erez

Curriculum Vitae

Education

2017–Now **Postdoctoral Associate**, *Princeton University*, USA.

2014–2017 **HFSP Postdoctoral Fellow**, *MSKCC and National Institutes of Health*, USA.

2010–2014 **PhD. Physics**, *Ben Gurion University*, Israel.

2007–2010 **MSc. Physics**, *Ben Gurion University*, Israel.
Magna Cum Laude

2003–2006 **BSc. Physics**, *Ben Gurion University*, Israel.
Summa Cum Laude

Programming Languages

Experienced in C/C++, MATLAB, PERL, Mathematica. Very proficient in linux. Basic python.

Work Experience

Summer 2006 **Summer Student**, CERN, Geneva, Switzerland.
Infrastructure work on the LHC with Vladimir Bahyl.

2000-2002 **Senior Software Developer**, Silicon Value Ltd., Jerusalem, Israel.
My work was to develop and implement optimization and testing algorithms for VLSI chip design.

1997-2000 **Military**, IDF, Israel.
Compulsory 3 year service.

1995-1997 **Programmer**, Silicon Value Ltd., Jerusalem, Israel.
Coding and algorithm development in C++ and PERL.

Teaching Experience

2012–2014 **Lecturer**, Intro to quantum physics.
I was the lecturer in a course covering elementary quantum mechanics and solid state physics for 2nd year engineering students.

2009–2011 **Teaching Assistant**, Graduate Quantum Mechanics.

2008–2011 **Teaching Assistant**, Graduate Statistical Mechanics.

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2009–2012 **Teaching Assistant**, Undergraduate Quantum Mechanics.

2007–2009 **Teaching Assistant**, Undergraduate Statistical Mechanics.

Awards

2014 Human Frontier Science Program - Cross-disciplinary post-doctoral fellowship.

2014 Wolf Foundation - Thalheimer PhD award.

2012 Zabey Prize for excellent MSc thesis.

2011 Adams Fellow of the Israel Academy of Sciences and Humanities.

2010 Negev Fellowship, Kreitmann Graduate School, Ben Gurion University.

2006 Physics department award for excellence in study, Ben Gurion University.

2005 Physics department award for excellence in study, Ben Gurion University.

Publications

2017 **Modeling of cytometry data in logarithmic space: when is a bimodal distribution not bimodal?**, A Erez, R Vogel, A Mugler, A Belmonte, G Altan-Bonnet.
bioRxiv:150201 submitted to publication

2017 **Criticality of biochemical feedback**, A Erez, T Byrd, RM Vogel, G Altan-Bonnet, A Mugler.
arXiv:1703.04194 currently in review

2017 **Lymphocytic division clocked up by Myc**, A Erez, G Altan-Bonnet.
Immunology and Cell Biology 95, 119-120

2016 **Dichotomy of cellular inhibition by small-molecule inhibitors revealed by single-cell analysis**, RM Vogel, A Erez, G Altan-Bonnet.
Nature Communications 7, 12428

2013 **Proposed Measurement of Spatial Correlations at the Berezinski-Kosterlitz-Thouless Transition of Superconducting Thin Films**, Amir Erez and Yigal Meir.
Phys. Rev. Lett. 111, 187002

2013 **The effect of amplitude fluctuations on the BKT transition**, Amir Erez and Yigal Meir.
Phys. Rev. B. 88, 184510

2012 **The Kibble-Zurek Problem: Universality and the Scaling Limit**, A Chandran, A. Erez* , S.S. Gubser, S.L. Sondhi, *Corresponding author. Authors listed in alphabetic order.
Phys. Rev. B 86, 064304

2010 **Thermal phase transition in two-dimensional disordered superconductors**, Amir Erez and Yigal Meir.
Euro. Phys. Lett. 91, 47003