

Curriculum Vitae:

Name: Hacoheh-Gourgy, Shay

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Short Personal statement

I am an experimental physicist working in the microwave domain at low temperatures in the field of circuit-QED with superconducting circuits, one of leading technologies for Quantum computing. I gained this expertise during my postdoc at Irfan Siddiqi's lab in Berkeley. My prior experience, from my Ph.D, is in DC transport measurements at low temperatures with a background in superconducting and magnetic materials. We have just finished building our new lab at Technion, Israel, and are starting to run experiments. My major interests are in improving, and exploring the physics related to, superconducting circuits. This includes two major aspects. Improvement of the circuits themselves for quantum information, and utilizing their unique capabilities for quantum control.

Education

- 2008-2013 Ph.D in Physics, Tel Aviv University, Israel
Title: "Transport in Interfaces of nano-scale Superconductor/Ferromagnet Structures and Metal/Graphene Structures"
Advisor: Prof. G. Deutscher
- 2006-2008 M.Sc in Physics, Magna cum laude, Tel Aviv University, Israel
Title: "Superconducting / Ferromagnetic hybrid structures and measurement of non-local quantum phenomena"
Advisor: Prof. G. Deutscher
- 2003-2006 B.Sc in Physics, Magna cum laude, Tel Aviv University, Israel

Academic Positions

- 2017 – Assistant Professor at the Physics faculty, Technion, Israel Institute of Technology
- 2013 – 2017 Post-doctoral fellow, University of California, Berkeley, USA
Physics department at Prof. I. Siddiqi group
- 2009 – 2012 Lecturer for Introduction to Modern Physics (Boston University exchange program)
Physics, Tel Aviv University, Israel
- 2010 – 2012 Teaching assistant for Classical Physics I
Physics, Tel Aviv University, Israel
- 2008 – 2010 Teaching assistant for Mathematical introduction for physicists
Physics, Tel Aviv University, Israel
- 2005 – 2010 Instructor for Physics teaching labs
Physics, Tel Aviv University, Israel

Awards and scholarships

2018	Google Research Award
2017	Shillman Fellow, as part of the Technion's Robert J. Shillman Career Advancement Chair
2012	The Yuval Neeman award for Outstanding Academic Achievement, Tel-Aviv University
2010	School of Physics and Astronomy Excellency in Teaching Prize, Tel-Aviv University
2010	School of Physics and Astronomy Excellency in Research Prize, Tel-Aviv University
2008-2012	Tel-Aviv University Nanoscale Science and Technology Center Scholarship
2009-2010	Faculty of Exact Science Raymond and Beverly Sackler Excellency Scholarship

Invited presentations (since 2016)

2019	“Training a Recurrent Neural Network to Predict Quantum Trajectories from Raw Observation”, MCQST Quantum Symposium, Munich, Germany
2019	“Training a Recurrent Neural Network to Predict Quantum Trajectories from Raw Observation”, Alibaba Quantum Laboratory Young Scientist Workshop, Hangzhou, China
2019	“Circuit-QED - designing and controlling the quantum”, Physics colloquium, KAIST, Daejeon, Korea
2019	“Can a machine infer quantum mechanics?”, Bar-Ilan university, Israel
2019	“Can a machine infer quantum mechanics?”, Probing Coherent Superconducting Hybrids at the Nanoscale, Eilat, Israel
2018	“Quantum trajectories: Observing the measurement process”, Google quantum computing workshop, Tel-Aviv, Israel
2018	“Dynamical coupling in circuit-QED”, Correlations and Entanglement with Photons in Cavities, Chicheley Hall, Buckinghamshire, England
2018	“Exploring the uncertainty principle in circuit-QED”, Annual international symposium on Quantum Science and Quantum Engineering, Technion, Haifa, Israel
2018	“Dynamical coupling in circuit-QED”, Physics colloquium, Technion, Haifa, Israel
2018	“Quantum dynamics of simultaneously measured non-commuting observables”, Israeli Physics Society, Technion, Haifa, Israel
2017	“Quantum dynamics of simultaneously measured non-commuting observables”, American Physical Society March meeting, New Orleans, LA, USA
2016	“Dynamics of simultaneously measured non-commuting observables”, Invited seminar in Washington university, St. Louis, MO, USA