

Alon Ron

Curriculum Vitae

EDUCATION

Tel Aviv University

- 2011 – 2016** Student for a direct Ph.D. of Physics for excelling students. Tel Aviv University
- 10/2007 – 8/2011** B.Sc. in Physics and Electrical Engineering (double major), graduated magna cum laude.

EXPERIENCE

CERN Summer School

- 2016 - Present** Postdoctoral scholar at Prof. David Hsieh's group in Caltech
- 2011** Participant in a series of lectures about various topics in physics and engineering. Intern in the Condensed Matter department of ISOLDE (On-Line Isotope Mass Separator) facility in CERN. Presented the final internship work in an ISOLDE seminar.

Electrical Engineering Project (TAU High TC Superconductivity Lab)

- 2010 – 2011** Designed, manufactured and tested a Fault Current Limiter (FCL), fabricated on superconducting YBCO thin films.

Research Assistant (TAU)

- 2009 – 2016** Highly correlated electrons laboratory work, with guidance by Prof. Yoram Dagan

Taldor (software company)

- 2006 – 2007** Software QA and technical writing

FELLOWSHIPS AND PRIZES

- 2016 - Present** Richard Tollman Prize fellowship at Caltech
- 2015** Prof. Rami Rahamimoff grant for Ph.D. students by the Binational Science Foundation (BSF)

Yuval Neeman prize for excellence in research and teaching
Israel science foundation travel scholarship for an international conference

- 2014** Yuval Neeman prize for excellence in research
- 2013** School of physics scholarship for excellence in research for Ph.D. students
- 2011- 2016** Tel-Aviv University Center for Nanoscience and Nano technology excellence fellowship for Ph.D. students.

PUBLICATIONS- APPEARED IN REFEREED JOURNALS

- 2016** A.Ron et al. "Solution monolayer epitaxy for tunable atomically-sharp oxide interfaces", In preparation.
- Maniv, E., et al. "Tunneling into a quantum confinement created by a single-step nanolithography of conducting oxide interfaces." *Physical Review B* 94.4 (2016): 045120.
- 2015** Maniv, E., et al. "Strong correlations elucidate the electronic structure and phase diagram of LaAlO₃/SrTiO₃ interface." *Nature Communications* 6 (2015).
- 2014** A.Ron, E.Maniv, D. Graf, J.-H. Park and Y.Dagan. "Anomalous Magnetic Ground State in an LaAlO₃/SrTiO₃ Interface Probed by Transport through Nanowires." *Physical review letters* 113 216801 (2014)
- A. Ron, and Y. Dagan. "One-Dimensional Quantum Wire Formed at the Boundary between Two Insulating LaAlO₃/SrTiO₃ Interfaces." *Physical review letters* 112.13 (2014): 136801.
- 2012** M.Petrushevsky, E.Lahoud, A.Ron et al, *Phys. Rev. B* 86, 045131 (2012)
- 2010** M. Ben Shalom, A. Ron, A. Palevski, and Y. Dagan. Shubnikov de haas oscillations in SrTiO₃/LaAlO₃ interface. *Phys. Rev. Lett.*, 105(20):206401, Nov 2010.

CONFERENCES AND TALKS

- 2016** Oral presentation in the 2016 MRS fall meeting, Boston MA.
- 2015** Oral presentation in the 2015 American physics society march meeting, San Antonio TX.

2014 Oral presentation in the 2014 Sackler prize symposium on Topological phases in condensed matter, Tel Aviv University.

2013 Oral presentation in the 59'th Israeli physics society conference, Weizmann institute, Rehovot

Oral presentation in The 31st Israel Vacuum Society conference Israel Vacuum Society, Herzliya Alon Ron

Oral presentation in The Fred Chaoul 9th Annual Nano workshop Tel Aviv Center for Nanoscience and Nanotechnology, Nazereth