

Dr. Pavel Ginzburg



UNIVERSITY ADDRESS

Tel Aviv University
Electrical Engineering
Department
Ramat Aviv 69978, ISRAEL
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RESEARCH

Optics, Quantum Mechanics, Radio Waves and Devices, Solid State Physics, Nano-plasmonics, Quantum information and Metamaterials

Author of 61 journal papers and ~140+ conference presentations (27 invited), h-index 20 (Google scholar).

EDUCATION

2007-2011

Ph.D. in Electrical Engineering - Technion

Thesis: Nano-Photonic Devices based on Modified Light-Matter Interactions

Supervisor: Prof. Meir Orenstein

Funding: Clore Scholars Programme

2005-2007

M.Sc. in Electrical Engineering - Technion

Thesis: Coherent interferences in optically interacting semiconductor structures

Supervisor: Prof. Meir Orenstein

Funding: Diane and Leonard Sherman Interdisciplinary Graduate School Fellowships and Technion Graduate School excellence scholarship

2001-2005

B.Sc in Electrical Engineering - Technion

President's List diploma

Areas of Concentration: Quantum optics, Control Systems

Funding: "The Technion Excellence program" scholarship

EMPLOYMENT

2015 - PRESENT

Senior Lecturer, Tel Aviv University

2013 -2014

EPSRC Research Fellow, King's College London, U.K.

Department of Physics, Experimental Biophysics & Nanotechnology, group leader: Prof. Anatoly Zayats

Funding: EPSRC, EP/K007793/1

2011 - 2013

International Newton Fellow, King's College London, U.K.

Department of Physics, Experimental Biophysics & Nanotechnology, group leader: Prof. Anatoly Zayats

Funding: International Newton and Rothschild Fellowships

TEACHING EXPERIENCE

2016 SPRING

Electromagnetic Fields, undergraduate course, Tel Aviv University

2015 FALL

Introduction to Lasers, joint undergraduate/graduate course, Tel Aviv University

2015 SPRING

Photons in structured media, graduate course, Tel Aviv University

Dr. Pavel Ginzburg

2005-2011 Senior Teaching Assistant, Teaching Assistant –
Electromagnetic Fields course, Technion. Author of a tutorial
course booklet

MENTORING AND SUPERVISION

2015–PRESENT MSc thesis – Yuval Lidor (July 2016, Tel Aviv University);
joint with Prof. Yosi Shacham
PhD thesis – Tmiron Alon (May 2016, Tel Aviv University)
MSc thesis – Hen Markovich (February 2016, Tel Aviv
University)
MSc thesis – Vitaly Kozlov (May 2015, Tel Aviv University)
PhD thesis – Dmitry Filonov (October 2015, Tel Aviv
University)
Postdoctoral Fellow – Dr. Paulina Segovia Olivera (August
2015, Tel Aviv University)
Postdoctoral Fellow – Dr. Ivan Shishkin (October 2015, Tel
Aviv University)

2013–PRESENT Students mentoring, Saint Petersburg National Research
University of Information Technologies, Mechanics and
Optics

2011 - 2014 Students mentoring, King’s College London

2005-2011 Supervisor of 20 undergraduate projects, outcome: 7
publications in peer reviewed journals and presentations at
international conferences

FUNDING AND GRANTS

2016-2018 Kamin, Israel “Passive labelling with time-varying
metamaterials” (with Prof. Amir Boag)
Budget: 880kNIS

2016-2017 German-Israeli Foundation, Young Scientist Program (I-2399-
303.7)
Budget: 20k€

2015-2017 Alon Scholarship
Budget: annual salary + 170k NIS

2015-2016 Sherman Foundation
Budget: 1.5k NIS

2015-2016 Kransberg Foundation
Budget: 5k NIS

2013-2015 EPSRC postdoctoral grant. EP/K007793/1 – “Quantum
Plasmonics”
Overall budget: £264,087.

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- 2013-2014 U.S. Army Forward Element Command-Atlantic Research Grant. R&D 1596-AM-01 - "Collective Nonlinearities in Plasmonic Metamaterials" Role: Co-Investigator. Overall budget: ~50k\$.
- 2012-2013 Principal Investigator of Joint British-Russian Collaboration Project. Grant №14.B37.21.1941 "Integration of metamaterials into photonic circuits for innovative quantum communications and sensing ". 10 affiliated researchers, Overall budget: 3.15million Rub.
- 2011- 2013 International Newton Fellowship, awarded by The Royal Society.
Type: Fellowship. Role: Researcher. Value: 100% salary, travel and equipment expenses. Overall: 104k£
- 2007-2011 Clore Scholars Programme
Type: Ph.D Fellowship. Value: 100% salary, full tuition fees, some travel expenses.
- 2005-2007 Diane and Leonard Sherman Interdisciplinary Graduate School Fellowships and Technion Graduate School excellence scholarship
Type: Masters Fellowship. Value: 100% salary, full tuition fees, some travel expenses.
- 2001-2008 "The Technion Excellence program" scholarship
Type: Undergraduate fellowship for special excellence. Value: salary, full tuition fees.

SCHOLARSHIPS AND AWARDS

- 2015 Alon Scholarship
- 2013 Best paper award, The 7th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics
- 2013 EPSRC postdoctoral fellowship
- 2012 Poster Award, Biophotonics summer school, Illinois
- 2011 International Newton Fellowship
- 2011 QEOD Thesis Price for Applied Aspects (EPS)
- 2010 Encouragement award (Best collaborative paper at Technion)
- 2010 Rothschild Fellowship
- 2009 Russell Berrie Scholarship for Excellence in Nanoscience and Nanotechnology
- 2009 Jacobs Prize for the excellent published paper (Technion)
- 2008 Clore Scholars Programme
- 2008 Gutwirth, Jacobs and Jacobs-Qualcom scholarship
- 2008 Hershel Rich Innovation Award
- 2007 Wolf Excellence Award
- 2007 Russell Berrie Scholarship for Excellence in Nanoscience and Nanotechnology
- 2007 Best Poster, European Topical Conference on Nanophotonics and Metamaterials

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2006 Applied Materials Excellence Award
2006 Diane and Leonard Sherman Interdisciplinary Graduate School Fellowships
2006 Miriam and Aaron Gutwirth Memorial Fellowship" for special Excellence
2005 "Josef and Rina Zipers excellence prize"
2005 Technion Graduate School excellence scholarship
2002 "The Technion Excellence program" scholarship
2005 President's list (6), Dean's list (1)
2001-2005

PROFESSIONAL MEMBERSHIPS

OSA, IOP and IEEE

ORGANIZATION

2017 Symposium Session Co-organizer
2017 MRS Spring Meeting, "Material Platforms for Plasmonics and Metamaterials: Novel Approaches Towards Practical Applications"
2017 Workshop Co-organizer
UK-Israel Workshop and Winter School on Emerging Applications of Optical Nanostructures
2016 Workshop Co-organizer
Bath-Tel Aviv University Workshop on nonlinear and quantum photonics
2016 Conference Session organizer
"Applications of Plasmonics and Metamaterials", EMN MEETING ON QUANTUM, Phuket

JOURNAL REFEREE

Physical Review (Letters, A, B, X), Optics Letters, Optics Express, Applied Physics Letters, Journal of the Optical Society of America, ACS Photonics, ACS Nano, Nano Letters, Plasmonics, Fiber and Integrated Optics, Photonics Technology Letters (IEEE), Plasmonics.

LANGUAGES

Hebrew, English, Russian

ADDITIONAL INFORMATION

Kung-Fu (SanDa) Master and Instructor - 5 years coaching experience (students - national championship finalists).
SanDa - Israeli National Champion, British National Champion.
Taekwondo - Israeli student champion, National championship medallist.
Military service 1998-2001. Elite IDF unit. Squad commander, operation team member.