

# Alexander N. Korotkov

Professor

Department of Electrical Engineering University of California, Riverside Riverside, CA 92521 Phone: (951) 827-2345 Fax: (951) 827-2425 E-mail: korotkov@ece.ucr.edu Homepage: ece.ucr.edu/~korotkov/

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## **Research interests**

Quantum computing, quantum measurements, quantum feedback control, nanoelectronics

## **Publications**

136 journal papers, 39 conference proceedings and book chapters

## **Citation index**

Google Scholar: 8,000 citations, 22 papers cited over 100 times, h-index 46 Web of Science: 5,000 citations, h-index 39

# Education

Ph.D. in Physics in 1991 from Moscow State University (advisor Prof. K.K. Likharev) M.S. in Physics (cum laude) in 1986 from Moscow State University

# Employment

2000 – present	Professor (2006 – present) Associate Professor (2002 – 2006)
	Assistant Professor (2000 – 2002)
Dept. of Elec	ctrical Engineering, University of California, Riverside, CA
1998 – 2000	Research Assistant Professor, Research Scientist
Dept. of Phy	sics and Astronomy, State University of New York, Stony Brook, NY
1996 – 1998 Dept. of Mic	Senior Scientist roelectronics, Moscow State University, Moscow, Russia
1993 – 1996	Research Scientist, Postdoctoral Research Associate
Department o	of Physics, State University of New York at Stony Brook, NY
1989 – 1993	Senior Scientist, Scientist, Engineer
Dept. of Mic	roelectronics, Institute of Nuclear Physics, Moscow State University
1987 – 1989	Senior Technician (Physicist)
Department o	of Physics, Moscow State University, Moscow, Russia

#### **Visiting positions**

June 1998 – Aug. 1998 Visiting Professor
 Dec. 1997 – March 1998 Dept. de Physique, Université de la Méditerranée (Luminy), Marseille, France
 Feb. 1997 – May 1997 Researcher
 NEC Fundamental Research Laboratories, Tsukuba, Japan

#### Main research funding

"Continuous quantum state tracking and error correction", ARO/LPS, 2015-2019
"Multi-qubit algorithms in Josephson phase qubits", ARO/IARPA, 2010-2015
"Control of quantum open systems: theory and experiment", ARO MURI, 2011-2016
"Algorithm demonstrations using Josephson qubits", ARO/IARPA, 2008-2010
"High-fidelity Josephson qubits", ARO, 2004-2008
"State purification and decoherence suppression by continuous measurement of a qubit", ARO, 2001-2004
"Background-charge-insensitive single-electron memory", SRC, 2001-2004

"Digital applications of single-electron tunneling", Samsung Electronics, 1997-1998

## **Professional memberships**

APS, IEEE

## Ph.D. students graduated

Qin Zhang (2007), Kyle Keane (2012), Andrey Rodionov (2014), Eric Mlinar (2017), Mostafa Khezri (2018)

#### **Current Ph.D. students**

Vinay Tripathi

### **Postdocs/researchers**

Juan Atalaya (01/2016 – present), Mohammad Bahrami (02/2016 – 07/2016), Justin Dressel (09/2013 – 08/2015), Eyob Sete (05/2012 – 02/2015), Andrzej Veitia (12/2012 – 11/2013), Andrei Galiautdinov (09/2010 – 12/2011), Ricardo Pinto (04/2009 – 04/2010), Abraham Kofman (06/2005 – 06/2008), Valentin Turin (11/2001 – 01/2003), Rusko Ruskov (10/2001 – 08/2004)