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Education

2006 *Ph.D. in Physics, Georgia Institute of Technology, Atlanta, GA, USA*

1994 *MS in Physics, Belarusian State University, Minsk, Belarus*

Positions held

2010-present *Principal Investigator at the Centre for Quantum Technologies and Assistant Professor at the Department of Physics, National University of Singapore*

2007-2010 *Postdoctoral Research Fellow, University of Maryland, College Park, MD (Group of Prof. Christopher Monroe)*

2006-2007 *Postdoctoral Research Fellow, University of Michigan, Ann Arbor, MI, (Group of Prof. Christopher Monroe)*

2003-2006 *Graduate Research Assistant, Georgia Institute of Technology, Atlanta, GA, (Group of Prof. Alex Kuzmich)*

2003 *Teaching Assistant, Georgia Institute of Technology, Atlanta, GA*

2001-2002 *Software Engineer, Hitron Systems Inc., Seoul/Anseong, South Korea*

1994-2001 *Engineer, Research Institute of Nuclear Problems, Belarusian State University, Minsk, Belarus*

Awards & Honours

- *DAMOP Thesis prize finalist, American Physical Society (2007),*
- *Sigma Xi Best Ph.D. Thesis Award, Georgia Institute of Technology (2007),*
- *Henry Valk award for best performance on the PhD Qualifying Exam, School of Physics, Georgia Institute of Technology (2003)*
- *Silver medal, Soviet Union Physics Olympiad for high school students (1989)*

Selected committee work

2014-present *Head of the IT infrastructure committee at the Centre of Quantum Technologies, National University of Singapore.*

Five selected (recent) publications

1. G. Maslennikov, S. Ding, R. Hablutzel, J. Gan, A. Roulet, S. Nimmrichter, J. Dai, V. Scarani, D. Matsukevich, (2019)
"Quantum absorption refrigerator with trapped ions",
Nature Communications 10, p.202 (2019).

2. S. Ding, G. Maslennikov, R. Hablutzel, D. Matsukevich, (2018)
"Quantum Simulations with a Trilinear Hamiltonian",
Physical Review Letters 121, 130502.

3. S. Ding, G. Maslennikov, R. Hablutzel, D. Matsukevich, (2017)
"Cross-Kerr nonlinearity for phonon counting",
Physical Review Letters 119, 193602

4. S. Ding, G. Maslennikov, R. Hablutzel, H. Loh, D. Matsukevich, (2017)

"A quantum parametric oscillator with trapped ions",

Physical Review Letters 119, 150404

5. S. Ding, H. Loh, R. Hablutzel, M. Gao, G. Maslennikov, D. N. Matsukevich, (2014)

"Microwave control of trapped-ion motion assisted by a running optical lattice",

Physical Review Letters 113, 073002