

# Vadim Makarov



## CV

2012 – present time	<b>research assistant professor</b>	head of Quantum hacking lab <a href="http://www.vad1.com/lab">www.vad1.com/lab</a> at the University of Waterloo, Canada
2008 – 2012	<b>postdoc</b>	Department of Electronics and Telecommunications, Norwegian University of Science and Technology
2007 – 2008	<b>postdoc</b>	Department of Physics, Pohang University of Science and Technology, South Korea
1998 – 2007	<b>PhD student</b>	Department of Electronics and Telecommunications, Norwegian University of Science and Technology
1993 – 1998		Master's degree from Radiophysics Department, St. Petersburg State Polytechnical University, Russia

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## Selected publications

- L. Lydersen, C. Wiechers, C. Wittmann, D. Elser, J. Skaar, and V. Makarov, “Hacking commercial quantum cryptography systems by tailored bright illumination,” *Nat. Photonics* **4**, 686 (2010).
- X.-S. Ma, T. Herbst, T. Scheidl, D. Wang, S. Kropatschek, W. Naylor, B. Wittmann, A. Mech, J. Kofler, E. Anisimova, V. Makarov, T. Jennewein, R. Ursin, and A. Zeilinger, “Quantum teleportation over 143 kilometres using active feed-forward,” *Nature* **489**, 269 (2012).
- I. Gerhardt, Q. Liu, A. Lamas-Linares, J. Skaar, C. Kurtsiefer, and V. Makarov, “Full-field implementation of a perfect eavesdropper on a quantum cryptography system,” *Nat. Commun.* **2**, 349 (2011).
- V. Makarov, A. Anisimov, and J. Skaar, “Effects of detector efficiency mismatch on security of quantum cryptosystems,” *Phys. Rev. A* **74**, 022313 (2006).
- V. Makarov, J.-P. Bourgoin, P. Chaiwongkhot, M. Gagné, T. Jennewein, S. Kaiser, R. Kashyap, M. Legré, C. Minshull, and S. Sajeed, “Creation of backdoors in quantum communications via laser damage,” *Phys. Rev. A* **94**, 030302 (2016).

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