VLADIMIR DRYNKIN

+7 (915) 787 1977, vladimir.drynkin@gmail.com
website: http://istina.msu.ru/profile/vovkins/
1V Leninskiye gory st, Moscow, 119234

EDUCATION

Lomonosov Moscow State University *Sep 2009 — Jan 2015*
Department: Faculty of Physics
Chair: General physics and wave processes
Laboratory: Theoretical problems in optics
Specialization: Laser physics
Degree thesis: "Plasmonic resonances of nanogratings for optical radiation control"
Average score: 4.54 of 5.0

coursera.org *Jun 2014 — Sep 2014*
Course: Machine Learning
Lecturer: Andrew Ng (Stanford University)

coursera.org *Jun 2014 — Sep 2014*
Course: Algorithms, Part I
Lecturer: Robert Sedgewick, Kevin Wayne (Princeton University)

School on JINR/CERN grid and advanced information systems *Oct 2014*
Organizers: The Joint Institute For Nuclear Research,
The European Organization For Nuclear Research,
National Research Nuclear University "MEPhI"
Venue: JINR, Dubna

SKILLS

Computer languages	Assembler (AVR, 8051, x86), C/C++, python
Web development languages & libraries	HTML5, CSS3, JavaScript, jQuery
Scientific languages	Wolfram Mathematica, MATLAB
CAD	SolidWorks, KOMPAS
Operating systems	Windows (95 – 8.1), Linux (Debian, Gentoo, LFS), administration of Linux/Windows machines, VPS and network
Protocols	SSH, Telnet
Databases	Relational databases, SQL
Tools	Microsoft Office, LaTeX, RegExp, bash, Origin, LabVIEW
Languages	English – advanced, Russian – native
Other	Neural networks and machine learning; Good analytical and calculus skills; Responsible, organized and proactive worker, able to work in team

EXPERIENCE

National research centre "Kurchatov institute" Mar 2012 — Feb 2013
Research engineer *Moscow, Russia*

Responsibilities:

- Study and analysis of theories describing interaction of radiation with nanostructures;
- Formulation of new theory based on existing theories that best describe interaction of radiation with plasmonic diffraction nanogratings;
- Creation of computer program that uses developed theory and numerically simulates the interaction of radiation with a diffraction nanogratings with the given parameters.

Achievements:

- Prediction of optimal design of diffraction nanogratings for efficient surface plasmon polaritons generation with given spectral characteristics at a selected wavelength;
- Publication of article with results of research*;

*article's DOI 10.7868/S0023476114010081

ACTIVITIES

Theoretical research in field of physics (light-matter interaction, SPP, nanostructures, optical radiation control).

Information security (RFID, 802.11bgn, finding and exploitation of vulnerabilities, reverse engineering, MITM attacks, cryptography).

Winter and summer extreme sports (snowboarding, ski, skateboarding, mountain bike, roller-skates).

REFERENCES

References available upon request