

Personal

Location: Auckland, New Zealand **e-mail:** m.zlygostiev@gmail.com
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Education

- 03.2018-current PhD topic: "Using OCT to detect early signs of chronic diseases", **University of Auckland**, New Zealand
Brief Overview: Project involves the technical adaption and data analysis of a near-infrared imaging technique to correlate physical properties at the onset of different diseases.
- 09.2016-07.2017 Pré-doctorale program PSL-ITI (Science and Startups), **PSL University**, Paris
- 09.2015-09.2016 Master degree, "Grands Instruments", **Université Paris Saclay**, France
- 09.2010-03.2016 Master's diploma with honours (excellent), **V.N. Karazin Kharkiv National University**, Ukraine

Professional Experience

- 06.2018-current Lab Tutor. **The University of Auckland**, New Zealand
Courses Physics 160 (Physics for the Life Sciences); Exersci 203 (Biomechanics);
- 02.2017-08.2017 Internship: "Dual objective super-resolution microscopy" **Institute Langevin, ESPCI, PSL**, Paris, France
(5 month)
Responsibility Development, assembling and tuning of Super-Resolution Microscope. Programming: Python, Matlab;
- 04.2016-09.2016 Internship: "Implementation of a low temperature EPR setup at the SIRIUS facility" **Laboratoire des Solides Irradiés (CEA-CNRS) - École Polytechnique**, Palaiseau, France.
(5 month)
Responsibility Instrumentation, implementation of cooling system (8°K) to the EPR-spectrometer. Programming: Labview;
- 04.2015-05.2015 Internship: "Fiber Beam Loss Monitor for the photoinjector PHIL", **Laboratoire de l'Accélérateur Linéaire, Paris-Sud University**, Orsay, France
(2 month)
Responsibility Data analysis. Programming: Geant4;
- 09.2014-12.2014 Internship: "Feasibility of the propagation-based phase contrast imaging technique using the ThomX X-ray beam", **Laboratoire de l'Accélérateur Linéaire, Paris-Sud University**
(3 month)
Responsibility Phase Contrast Imaging analysis. Programming: Wolfram Mathematica, Delphi, Geant4;
- 04.2014-05.2014 Internship, **Grigoriev Institute for medical Radiology NAMS of Ukraine**, Kharkiv, Ukraine.
Responsibility Exposure dose control, experiments with medical linear accelerator. Programming: Matlab;
- 03.2014-06.2014 Bachelor thesis: "Comparative analysis of algorithms of determination of the rate of wave processes in biological tissues", **V.N. Karazin Kharkiv National University**, Ukraine
(3 month)

Languages

Ukrainian (Native), **Russian** (Native), **English** (IELTS: 7.0 (C1)), **Français** (B1).

Skills

Computer skills Python (Numpy, Pandas, Scikit-learn, Matplotlib, Scipy); SQL; \LaTeX ; Matlab; LabView;

Scholarships and awards

The Dodd-Walls Center Doctoral Scholarship; IDEX Scholarship; Embassy of France in Ukraine scholarship;
Best Presentation awards: DWC Symposium 2020, 23rd Jyväskylä Summer School;
Travel grants for study visits to Israel, Finland, Russia, France, Germany, Switzerland, Czechia, Australia, Ireland;

Interests

Travelling, chess, football, long-distance runner, snowboarding, tennis, civil aviation, readings, stocks.