



Personal information

Surname / First name **Čančula, Miha**
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Nationality Slovenian
Date of birth 10 April 1989

Work experience

2011-2013 Google Summer of Code participant – Orange, KDevelop, DUNE
2013-2016 Young Researcher – Faculty of Mathematics and Physics, University of Ljubljana
2014-2017 Freelance programmer – Broccoli, MyndPlay, Bitfusion, BlockSettle, etc.
2017-2018 Staff Software Engineer – Bitfusion
- Contributions to open source projects – KDE, KDevelop, Rust

Education

MSc Physics, University of Ljubljana, 2013
PhD Computational Physics, University of Ljubljana, 2016

Skills

Computer programming High-performance computing, GPU programming, scripting, desktop applications
Secure and maintainable code, version control, continuous integration, unit testing
Work alone, in a small team, or as part of a large international project
Scientific research Theoretical and numerical studies of the interaction between light and liquid crystals
Published two papers in major scientific journals[1, 2]
Problem solving Mathematics, physics, optimization, general problem solving
Other Linux administration, cryptography, \LaTeX , 2D and 3D data visualization

Languages

Human **Slovenian** (native), **English** (fluent)
General-purpose **C++**, **Python**, **Rust**, **C**, Go, Java
GPU programming **OpenCL**, **CUDA**, OpenGL, Vulkan
Web and GUI HTML, CSS, JavaScript, QML, **Qt**, Android
Numerical **Matlab**, **Octave**, **Numpy**, TensorFlow
Scripting Linux shell scripts, make, **CMake**

** Areas in which I have expert-level knowledge are in bold*

Other achievements

Science olympiads IMO 2007 – bronze medal, IPhO 2008 – bronze medal, IOL 2008
National competitions First place in multiple competitions, including programming, math, physics, and logic
Awards Contribution to sustainable development of society – for work on Orange, 2011

References

- [1] M. Čančula, M. Ravnik, and S. Žumer.
Generation of vector beams with liquid crystal disclination lines.
Phys. Rev. E, 90:022503, Aug 2014.
- [2] M. Čančula, M. Ravnik, I. Muševič, and S. Žumer.
Liquid microlenses and waveguides from bulk nematic birefringent profiles.
Opt. Express, 24(19):22177–22188, Sep 2016.