VANYA YANEVA

Informatics Forum 4.23, 10 Crichton Street, EH8 9AB, Edinburgh, UK

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EDUCATION

University of Edinburgh

· **PhD, CDT in Pervasive Parallelism**   Sept 2015 - Nov 2019 (expected)
Research topic: *Compiler-Assisted Parallel Testing on Heterogeneous Architectures.*
Earned an **MSc by Research (with distinction)** in August 2016.
Supervised an intern in May-July 2018.

· **MSc, High Performance Computing (with distinction)**   Sept 2012 - Aug 2013
Master's project: *Visual Parallel Programming.*

· **BSc, Computer Science and Mathematics (2:1)**   Sept 2008 - May 2012
Undergraduate Exchange at the University of Chicago   Sept 2010 - June 2011

PUBLICATIONS

Accelerated Finite State Machine Test Execution Using GPUs   December 2018
Vanya Yaneva, Arnav Kapoor, Ajitha Rajan and Christophe Dubach   *APSEC'18, Nara, Japan*

Assessing the Effect of Data Transformations on Test Suite Compilation   October 2018
Panagiotis Stratis, Vanya Yaneva, Ajitha Rajan   *ESEM'18, Oulu, Finland*

Compiler-Assisted Test Acceleration Using GPUs   June 2018
Vanya Yaneva   *ICSE'18, ACM Student Research Competition, Gothenburg, Sweden*

Compiler-Assisted Test Acceleration on GPUs for Embedded Software   July 2017
Vanya Yaneva, Ajitha Rajan and Christophe Dubach   *ISSTA'17, Santa Barbara, CA*

ParTeCL: Parallel Testing Using OpenCL   July 2017
Vanya Yaneva, Ajitha Rajan and Christophe Dubach   *ISSTA'17, Santa Barbara, CA*

ACADEMIC ACTIVITIES

Talks & Posters

· **Accelerated Finite State Machine Test Execution Using GPUs** (talk)
University of Sheffield (2019)
· **Compiler-Assisted Test Acceleration on GPUs for Embedded Software** (talk)
University of Edinburgh (2018, 2017), Codeplay Software, Edinburgh (2017)
· **Accelerated Test Execution Using GPUs** (talk)
University of Edinburgh (2016), MathWorks, Cambridge (2016)

Teaching

· Tutor, **Software Testing (UG3)**   Spring 2016 - 2019
· Teaching Assistant, **MSc in High Performance Computing**   Autumn/Spring 2015 - 2019
· Demonstrator, **Computer Programming Skills and Concepts**   Autumn 2018

Conference paricipation

· Student Volunteer, **APSEC'18**   December 2018
· PC Member, **ECOOP/ISSTA'18 Doctoral Symposium**   May 2018

WORK EXPERIENCE

Codeplay Software Ltd.   May 2017 - Aug 2017
C++ Intern   *Edinburgh, UK*

· Implemented features for the ComputeCpp runtime and SDK, using C++14. ComputeCpp is Codeplay's implementation of SYCL - an open standard for developing applications on heterogeneous architectures using C++.
· Developed Python and Jenkins scripts to automate performance benchmarking.

Excelian Ltd.   Oct 2013 - Aug 2015
Technology Consultant   *London, UK*

· Implemented features for an in-house trading application at UniCredit Bank, using C#, WPF, MVVM, including incorporating large existing codebases and legacy code.
· Performed numerous process management tasks, including administrating releases, tracking features and bugs and managing user accounts.
· Supervised one junior developer.

Ateeda Ltd.   Aug 2012 - Aug 2013
Software Developer   *Edinburgh, UK*

· Successfully ported a GUI intensive application from C# to Java and was responsible for the maintenance and extension of the produced application.
· Investigated particular sources of error in the CORDIC algorithm and produced a paper presenting my findings and making recommendations for techniques to reduce the impact of the errors.

AWARDS

The Claire Jones Prize, *School of Informatics, University of Edinburgh*   Nov 2016
Awarded to the best performing female MSc student.

ICE Award, *Excelian Ltd.*   June 2014
Excelian's monthly employee award, received for outstanding feedback from UniCredit Bank.

Student Employee of the Year 2013 Off Campus Category   June 2013
National Association for Student Employment Services
Institutional Level Award - University of Edinburgh

High Performance Computing Scholarship   May 2012
School of Physics & Astronomy, University of Edinburgh

TECHNICAL SKILLS

Parallel Programming	C, OpenCL, OpenMP, MPI
Other Programming	C++, R, C#, WPF, MVVM
Tools	Git, Clang LibTooling, LaTeX