

Yuriy Tymchuk

Doctoral Assistant

Università della Svizzera Italiana
Via G. Buffi 13
6904 Lugano, Switzerland
✉ yuriy.tymchuk@usi.ch
🌐 yuriy.tymch.uk



I'm a software engineer / computer scientist who likes researching new ideas, developing solutions, and teaching.
I am particularly interested in software maintenance and evolution, object-oriented and functional programming languages. Over the last years I made important code quality-assistance contributions to Pharo – an open source development environment.

Personal Information

Date of Birth: Aug 11, 1991
Place of Birth: Lviv, Ukraine

Citizenship: Ukrainian
Marital Status: Married

Employment

Università della Svizzera Italiana *Oct 2013–Present*
Doctoral Assistant

Modeling of developers collaboration, based on the data mined from software repository. Research on code quality and code review, development of ViDI and QualityAssistant projects. Assistance in teaching.

City Media Digital AS *Apr 2013–Sep 2013*
Software engineer

Pre-project research concerning web-application for leanbusiness.no. Development of Relink project in ruby on rails and also javascript, html, css. Contributed to git/CI workflow of the team.

RMoD, Inria *Jan 2013–Apr 2013*
Intern

Research on AST metamodels. Development of FAST generic metamodel and symbol resolution algorithm.

InterLogic *Aug 2012–Jan 2013*
Software engineer

Development of a Java3D applet for ventilation system configuration, with a backend in PHP and MySQL.

Unikernel Team (freelance) *Mar 2010–Aug 2012*
Founder/Leader

Different websites made from scratch. Usually online shops, sometimes web apps with rich frontend.

Ukrainian Academic Research Network *Feb 2009–Jul 2012*
System Administrator
Network administration, minor web development.

Skills

Experienced: Pharo/Smalltalk, Ruby+Rails, Java, Agile, git, TDD

Familiar: HTML, CSS, JavaScript, Scala, Objective-C, Python, C++, Lisp, MySQL, MongoDB, Mercurial, SVN

Education

Master of Science <i>Ivan Franko National University of Lviv</i> Specialization in Informatics	2012–2013
Bachelor of Science <i>Ivan Franko National University of Lviv</i> Specialization in Informatics	2008–2012
Highschool diploma <i>Lviv Physics and Mathematics Lyceum</i> Specialization in Physics and Mathematics	2006–2008
Member of MASU <i>Minor Academy of Sciences of Ukraine</i> “Whimsical Bride” - the graduation research project about statistics theory	2006–2008

Publications

conferences.....

Code Review: Veni, ViDI, Vici, Y. Tymchuk, A. Mocci, and M. Lanza, In Proceedings of SANER'15 (22nd International Conference on Software Analysis, Evolution, and Reengineering), pp. 151–160, IEEE, 2015.

Collaboration in Open-source Projects: Myth or Reality?, Y. Tymchuk, A. Mocci, and M. Lanza, In Proceedings of MSR'14 (11th Working Conference on Mining Software Repositories), pp. 304–307, ACM, 2014.

formal demonstrations.....

ViDI: The Visual Design Inspector, Y. Tymchuk, A. Mocci, and M. Lanza, In Proceedings of ICSE'15 (37th IEEE/ACM International Conference on Software Engineering) - Volume 2, pp. 653–656, ACM, 2015.

doctoral symposium.....

Treating Software Quality as a First-Class Entity, Y. Tymchuk, In Proceedings of ICSME'15 (31st International Conference on Software Maintenance and Evolution), to be published, IEEE, 2015.

workshops.....

Generic Name Resolution with Metamodels, Y. Tymchuk, B. Arezki, A. Etien, N. Anquetil, and S. Ducasse, In Proceedings of BENEVOL'13 (12th edition of the Belgian-Netherlands software evoLution seminar), 2013.

theses.....

Extending FAMIX metamodel to generate ASTs for Java and Smalltalk applications (Mater's thesis), Y. Tymchuk, Ivan Franko National University of Lviv, Ukraine, 2013.

Teaching

Teaching Assistant <i>Università della Svizzera Italiana</i> Programming Fundamentals I	<i>Sep 2015–Dec 2015</i>
Teaching Assistant <i>Università della Svizzera Italiana</i> Bachelors Project	<i>Feb 2015–Jun 2015</i>
Teaching Assistant <i>Università della Svizzera Italiana</i> Programming Fundamentals I	<i>Sep 2014–Dec 2014</i>
Teaching Assistant <i>Università della Svizzera Italiana</i> Software Atelier IV	<i>Feb 2014–Jun 2014</i>

Service

Artifact Evaluation Committee Member <i>3rd IEEE Working Conference on Software Visualization</i>	<i>VISSOFT 2015</i>
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Languages

English: Proficient	Polish (spoken): Intermediate
Ukrainian: Mother Tongue	Russian (spoken): Intermediate
Italian: Basic	

Hobby

Hiking, skiing, photography