

# Yuriy Tymchuk

## Doctoral Assistant

Università della Svizzera Italiana  
Via G. Buffi 13  
6904 Lugano, Switzerland  
✉ [yuriy.tymchuk@usi.ch](mailto:yuriy.tymchuk@usi.ch)  
🌐 [yuriy.tymch.uk](http://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

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

**Citizenship:** Ukrainian  
**Marital Status:** Married

### Employment

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**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

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

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

## Education

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

## Publications

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### 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

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

## Service

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

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<b>English:</b> Proficient	<b>Polish (spoken):</b> Intermediate
<b>Ukrainian:</b> Mother Tongue	<b>Russian (spoken):</b> Intermediate
<b>Italian:</b> Basic	

## Hobby

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Hiking, skiing, photography