

# Yuriy Tymchuk

## Research Assistant

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*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.*

## Employment

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### Universität Bern

*Jan 2016 – Present*

#### Research Assistant

Research on software quality and evolutionary monitoring.

### Università della Svizzera Italiana

*Oct 2013 – Dec 2015*

#### 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), pp. 653–656, IEEE Press, 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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## Personal Information

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<b>Date of Birth:</b> Aug 11, 1991	<b>Citizenship:</b> Ukrainian
<b>Place of Birth:</b> Lviv, Ukraine	<b>Marital Status:</b> Married

## 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

## Remarks for Nerds

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This cv is written in  $\text{\LaTeX}$ , versioned with git, hosted on GitHub and built with Travis CI