

## CURRICULUM VITAE

# Igor Mitrofanov

### PERSONAL DATA:



**Birthdate:** 4/10/1988  
**Nationality:** Russian  
**Languages:** English (fluent), Spanish (beginner), German (beginner), Russian (native)

**Web-site:** <http://igmit.com>

**E-mail:** [igor@igmit.com](mailto:igor@igmit.com)

### WORK EXPERIENCE

- 2014, June - 2015 Freelancer – web-developer, mobile apps developer, startup scene: ionic framework, MEAN (Mongodb, Express.js, Angular, Node.js) stack, Elasticsearch
- 2013, September – 2014, June Milaboratory.com, Laboratory of Molecular instruments for immunology, IBCH RAS, MiXCR - T-cell receptor repertoire analysis software (Java)
- 2010 October – 2013, April Technical University of Denmark, Research project “A methodology for systematic design and selection of green solvents for increased yield in organic reactions” (development of Computer-Aided Solvent Selection Framework (C#)
- Main developer of ICAS (Integrated Computer Aided System) software (C++)  
<http://www.capec.kt.dtu.dk/Software/ICAS-and-its-Tools/>
- 2010, December – June Mendeleev University of Chemical Technology of Russia, Diploma project: Development of module for search and extraction of

information in nanotechnology sphere.

2007–current time

Web-development: client-side and server-side programming

## **EDUCATION:**

2005-2010

Mendeleev University of Chemical Technology of Russia, Computer Aided Process Engineering Faculty

**Engineer degree**, Information Systems and Technologies, June 2010

Subject studied: Cryptography, Parallel programming, Intelligence and Information systems, Synergetics, Thermodynamics, Physical Chemistry, Cellular automata and Genetics Algorithms (C++ language)

1995-2005

Secondary Comprehensive School 59 of Saratov

## **CONFERENCES:**

2010, May (Moscow, RU)

Russian-German seminar «New multifunctional nanostructured materials»

Presentation: «Development of module for search and extraction information in nanotechnology sphere»

2011, March (Bradford, UK)

Computer-Aided Process Engineering forum,

Presentation “Computer-Aided Solvent Selection Framework”

2011, June (Copenhagen, DK)

CAPEC Annual Meeting,

Poster “The Solvent Selection framework: solvents for organic synthesis, separation processes and ionic-liquids solvents”

2012, June

ESCAPE-22

(London, DK)

Poster “SolventPro – Solvent Selection and Design Framework and ionic liquids solvent”

2012, June

CAPEC Annual Meeting,

(Copenhagen, DK)

Presentation “SolventPro - Solvent Selection and Design Framework”

2012, August (Prague, CZ)	CHISA conference Presentation “Extension of computer aided solvent selection and design framework – organic solvents for phase transfer catalysis”
2012, November Pittsburg, USA	AIChE Annual Meeting 2012 Presentation “Solventpro: The Solvent Selection and Design Framework”

## LIST OF PUBLICATIONS:

1. **I. Mitrofanov**, S. Sansonetti, J. Abildskov, G. Sin, R. Gani, 2012. The Solvent Selection framework: solvents for organic synthesis, separation processes and ionic-organic synthesis. 22nd European Symposium on Computer Aided Process Engineering. **Elsevier Science**, 2012. p. 762-766 (Computer Aided Chemical Engineering, Vol. 30) [http://orbit.dtu.dk/files/9851131/PEC12\\_08.pdf](http://orbit.dtu.dk/files/9851131/PEC12_08.pdf)
2. D. Bolotin, S. Poslavsky, **I. Mitrophanov**, M. Shugay, E. Putintseva, D. Chudakov. MiXCR: a comprehensive software for adaptive immunity profiling. **Nature Methods**. 2015 Apr 29; 12(5):380-1. doi: 10.1038/nmeth.3364.

## COMPUTER SKILLS:

Programming languages:	MEAN (Mongodb, Express, Angular, Node.js) stack + Elasticsearch Ionic framework (mobile framework) PHP (AJAX technology, CMS: Wordpress, Drupal, frameworks: kohana, yii); Java C++ (Qt, STL, pthreads, openMP, MPI); C# Javascript (Angular.js, jquery, knockoutjs, raphaeljs); Actionscript (Adobe Flash, box2D, WCK); SQL; HTML/CSS
OS:	UNIX, Linux (server administration) Windows (advanced user)
Other:	Adobe Photoshop, Microsoft Office, MathCAD