

PETER ČERNO – CURRICULUM VITAE

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Term-time residence: Křižíkova 123/69 Karlín, 186 00 Praha-Praha 8, Czech Republic

EDUCATION

- **Doctoral Study in Theoretical Computer Science, October 2010 – 2014 (expected),**
Supervised by RNDr. František Mráz, CSc.,
Department of Software and Computer Science Education (KSVI),
Faculty of Mathematics and Physics, Charles University in Prague.
- **Master of Theoretical Computer Science, October 2008 – September 2010,**
Achieved First Class results in all examinations,
Faculty of Mathematics and Physics, Charles University in Prague.
- **Bachelor's General Computer Science, October 2005 – September 2008,**
Graduated with honors,
Faculty of Mathematics and Physics, Charles University in Prague.
- Language knowledge: native Slovak; advanced English (CAE).

PROFESSIONAL EXPERIENCE

- **Google, June 2nd – October 31st 2014 (full-time): Software Engineer Intern.**
Using Google Brain and deep learning techniques.
- **Logio s.r.o., February 1st – May 22nd 2014 (full-time): Senior Software Engineer.**
- **Logio s.r.o., October 8th, 2009 – January 31st 2014 (part-time): Software Engineer.**
Supply chain management system: data analysis, demand forecasting, estimating safety-stock buffers, promo analysis, and improving customer service levels.
- **Asseco Slovakia, a.s., July 16th, 2007 – December 31st, 2007: Programmer.**

SKILLS

- C++11 (fluent in OOP, STL, multithreading).
- C# 5.0 (WinForms, LINQ, asynchronous and multithreaded programming).
- Python for Data Analysis (NumPy, SciPy, matplotlib, pandas).
- MySQL.
- Experience with Php, Node.js, MATLAB, Prolog, Git, SVN, LaTeX.
- Good working knowledge of Linux and basic shell scripting in bash.

ACHIEVEMENTS

- 2011 – 2013: **Grant** from the Grant Agency of Charles University (GAUK).
- 2010: **Dean Price** for the best diploma thesis on MFF UK 2009/2010.
- 2006 – 2010: **Scholarship** from the college (MFF UK) for good exam results.
- 2005: **Bronze medal**, 46th International Mathematical Olympiad, Mexico, 2005.
- 2004: **Honorable mention**, 45th International Mathematical Olympiad, Athens, 2004.

PUBLICATIONS

- **F. Otto, P. Černo, F. Mráz: On the Classes of Languages Accepted by Limited Context Restarting Automata,**
RAIRO - Theoretical Informatics and Applications, 2014, Vol. eFirst, 1 – 24, ISSN 1290-385X.
- P. Černo: Grammatical Inference of Lambda-Confluent Context Rewriting Systems, *Workshop on Non-Classical Models of Automata and Applications, 2013, books@ocg.at, pages 85 – 100.*
- P. Černo: Clearing Restarting Automata and Grammatical Inference,
Proceedings of the 11th International Conference on Grammatical Inference, 2012, JMLR, Vol. 21, pages 54 – 68.
- P. Černo, F. Mráz: Δ -Clearing Restarting Automata and CFL,
Proceedings of the 15th International Conference on Developments in Language Theory, Springer, Berlin, 2011, LNCS, Vol. 6795, pages 153 – 164.
- **P. Černo, F. Mráz: Clearing Restarting Automata,**
Fundamenta Informaticae, 2010, Vol. 104, No. 1, 17 – 54, DOI 10.3233/FI-2010-334.

INDEPENDENT COURSEWORK

- [Coursera: Machine Learning](#) – achieved 100%.
- [Coursera: Neural Networks for Machine Learning](#) – achieved 95.5%.
- [Coursera: Probabilistic Graphical Models](#) – achieved 98.6% on the advanced track.
- [Coursera: Natural Language Processing](#) – achieved 102.7%.
- [Coursera: Computational Investing, Part I](#) – achieved 101.7%.
- [Coursera: Computational Methods for Data Analysis](#) – no certificate issued.
- [edX: CS169.1x Software as a Service](#) – achieved 94%.

REFERENCES

- PhD. Advisor: RNDr. František Mráz, CSc., frantisek.mraz@gmail.com .
- Research Advisor: Prof. Dr. Friedrich Otto, otto@euklid.theory.informatik.uni-kassel.de .
- Logio s.r.o.: Ing. Tomáš Formánek, formanek@logio.cz .