

CURRICULUM VITAE

PERSONAL INFORMATION

Barbora Kozlíková



📍 472 Velká nad Veličkou, 696 74, Czech Republic

☎ +420 702 076 535

✉ xkozlik@fi.muni.cz

🌐 <http://www.fi.muni.cz/~xkozlik/>

Sex Female | Date of birth 01/01/1982 | Nationality Czech

WORK EXPERIENCE

since 07/2012 Assistant professor

Masaryk University

- Research, education, supervising bachelor and master students

01/2012 – 06/2012 Java programmer and analyst

Home Credit International

- Design and development of enterprise applications

EDUCATION AND TRAINING

2006 – 2011 Ph.D. degree in Theoretical Informatics and Computer Graphics

Faculty of Informatics, Masaryk University

- Thesis: Visualization techniques for static and dynamic protein molecules and their channels

2008 RNDr. degree in Theoretical Informatics and Computer Graphics

Faculty of Informatics, Masaryk University

- Thesis: Statická a dynamická vizualizace tunelů v molekulách proteinů (in Czech)

2004 – 2006 MSc. degree in Theoretical Informatics and Computer Graphics

Faculty of Informatics, Masaryk University

- Thesis: Interactive visualization of molecular models
- With honors

2001 – 2004 Bc. degree in Theoretical Informatics

Faculty of Informatics, Masaryk University

- Thesis: Animation techniques

PERSONAL SKILLS

9-year experience in bioinformatics and computer graphics
Reviewer of short papers at EUROGRAPHICS 2007, full papers at EUROGRAPHICS 2015, SciVis 2015, 3DVis@IEEEVIS2014, journal papers for Nucleic Acids Research.

Mother tongue(s) Czech

Languages English (fluent, IELTS degree 7.5), German (intermediate), French (basic)

SELECTED PUBLICATIONS

BYŠKA, J., Le MUZIC, M., GRÖLLER, E. M., VIOLA, I. and KOZLÍKOVÁ, B. **AnimoAminoMiner: Exploration of Protein Tunnels and their Properties in Molecular Dynamics**. IEEE Transactions on Visualization and Computer Graphics, IEEE, 2015, No 99. ISSN 1077-2626. doi:10.1109/TVCG.2015.2467434.

BYŠKA, J., JURČÍK, A., GRÖLLER, E. M., VIOLA, I. and KOZLÍKOVÁ, B. **MoleCollar and Tunnel Heat Map Visualizations for Conveying Spatio-Temporo-Chemical Properties Across and Along Protein Voids**. Computer Graphics Forum, Wiley-Blackwell, 2015, vol. 34, No 3, ISSN 1467-8659.

KOZLÍKOVÁ, B., KRONE, M., LINDOW, N., FALK, M., BAADEN, M., BAUM, D., VIOLA, I., PARULEK, J. and HEGE, H. Ch. **Visualization of Biomolecular Structures: State of the Art**. In R. Borgo and F. Ganovelli and I. Viola. Eurographics Conference on Visualization (EuroVis) - STARS. The Eurographics Association, 2015, 21 pp., doi:10.2312/eurovisstar.20151112.

KOZLÍKOVÁ, B., ŠEBESTOVÁ, E., ŠUSTR, V., BREZOVSKÝ, J., STRNAD, O., DANIEL, L., BEDNÁŘ, D., PAVELKA, A., MAŇÁK, M., BEZDĚKA, M., BENEŠ, P., KOTRY, M., GORA, A. W., DAMBORSKÝ, J. and SOCHOR, J. **CAVER Analyst 1.0: Graphic tool for interactive visualization and analysis of tunnels and channels in protein structures**. Bioinformatics, Oxford University Press, 2014, vol. 30, No 18, p. 2684-2685. ISSN 1367-4803.

CHOVANCOVÁ, E., PAVELKA, A., BENEŠ, P., STRNAD, O., BREZOVSKÝ, J., KOZLÍKOVÁ, B., GORA, A. W., ŠUSTR, V., KLVAŇA, M., MEDEK, P., BIEDERMANNNOVÁ, L., SOCHOR, J. and DAMBORSKÝ, J. **CAVER 3.0: A Tool for the Analysis of Transport Pathways in Dynamic Protein Structures**. PLoS Computational Biology, 2012, vol. 8, No 10. ISSN 1553-7358. doi:10.1371/journal.pcbi.1002708.

Peer reviewed publications (WoS): 6, Citations (WoS): 162, H-index (WoS): 2

ADDITIONAL INFORMATION

Presentations

December 2013 – invited talk at the Institute of Computer Graphics and Algorithms, TU Wien, Austria

January 2014 – invited talk at the Department of Computer Science and Engineering, University of West Bohemia, Czech Republic

March 2015 – invited talk at the Department of Informatics, University of Bergen, Norway

September 2015 – invited talk at the Institute of Media Informatics, Ulm University, Germany

Projects

01/2007 – 12/2009 researcher at the Czech Science Foundation project Visualization of Protein Structures (201/07/0927)

01/2010 – 12/2011 researcher at the Czech Science Foundation project Analysis and Visualization of Protein Structures (P202/10/1435)

2015 – 2016 coordinator of the Czech – Austria mobility project (MSMT-1462/2015-1)

2015 – 2016 coordinator of the Norway Funds mobility project (NF-CZ07-MOP-2-086-2014)

2016 – 2018 principal investigator at the Grant Agency of the Masaryk University project Expressive Visualization of Protein Complexes (MUNI/M/0822/2015)

Research stays

10/2014 – 03/2015 research stay at the Institute of Computer Graphics and Algorithms, TU Wien, Austria

10/2008 – 02/2009 PhD research stay at the University of Potsdam, Germany