

CURRICULUM VITAE

PERSONAL INFORMATION

Barbora Kozlíková



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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., RIEDERMANNOVÁ, 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): [65](#), Citations (WoS): [16227](#), H-index (WoS): 2

ADDITIONAL INFORMATION

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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

Presentations

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

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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

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