

Curriculum Vitae

Name: Patrícia Martinková

Address: Department of Medical Informatics and Biostatistics
Institute of Computer Science, Academy of Sciences of the Czech Republic
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Education:

1998 – 2003 (MSc.) Probability, Mathematical Statistics and Econometry,
Faculty of Mathematics and Physics,
Charles University in Prague, Czech Republic
2003 – 2007 (PhD.) Probability and Mathematical Statistics,
Faculty of Mathematics and Physics,
Charles University in Prague, Czech Republic
Thesis: Reliability of Composite Dichotomous Measurements

Employment:

Since 2008 *Scientist* at Department of Medical Informatics and Biostatistics, Institute of
Computer Science, AS CR, 2011 – 2013 *vice-head* of the department
2007 – 2008 *Junior Scientist* at Center of Biomedical Informatics
Institute of Computer Science, AS CR
2001 – 2006 *Research and Development Specialist* at Department of Medical Informatics,
Institute of Computer Science, AS CR

Teaching:

Since 2002 Teaching and consulting at European Centre for Medical Informatics, Statistics
and Epidemiology, courses “Statistics in Medical Research”, etc.
Spring 2004 Teaching at University of J. E. Purkyne, Czech Republic
“Statistics”, “Statistics for Social Science”
Spring 2004 Teaching assistant at Faculty of Science, Charles University in Prague
“Biostatistics”

Awards:

2013 – 2014 Fulbright-Masaryk Fellowship
July 2013 Best poster award (IMPS 2013, Arnhem, the Netherlands)
May 2011 Otto Wichterle Award (Academy of Sciences of the Czech Republic)
Sep 2006 Best student paper award (Week of Doctoral Students ICS ASCR)

Memberships:

Since 2001 Czech Statistical Society (member)
Since 2007 International Society for Clinical Biostatistics (member)

Other:

2012 – 2013 Secretary of the Advisory board of ICS ASCR
Since 2013 ELL Representative, Sandpoint Elementary PTA

Selected publications

Journals:

- [1] Řasová K, **Martinková P**, Vyskotová J, Šedová M. Assessment set for evaluation of clinical outcomes in multiple sclerosis - psychometric properties. *Patient Related Outcome Measures*, 3, pp. 59-70, 2012.
- [2] Štuka Č, **Martinková P**, Zvára K, Zvárová J. The prediction and probability for successful completion in medical study based on admission test and pre-admission grades. *The New Educational Review*, 28(2), pp. 138-152, 2012.
- [3] Řasová K, Kalistová H, Kučera P, Juzová O, Zimová D, Medová E, Doležil D, Jandová D, Tintěra J, Ibrahim I, Zvára K, Bičíková M, **Martinková P**. Physiotherapy as an immunoactive therapy? A pilot study. *Neuroendocrinology Letters*, 33(1), pp. 67-75, 2012.
- [4] Ibrahim I, Tintěra J, Škoch A, Jírů F, Hluštík P, **Martinková P**, Zvára K, Řasová K. Fractional anisotropy and mean diffusivity in the corpus callosum of patients with multiple sclerosis: the effect of physiotherapy. *Neuroradiology*, 53(11), pp. 917-26, 2011.
- [5] **Martinková P**, Zvára K. Reliability of Composite Dichotomous Measurements. *European Journal for Biomedical Informatics*, 6(2), pp. 14-23, 2010.
- [6] Řasová K, Brandejský P, Tintěra J, Krásenský J, Zimová D, Medová E, Herbenová A, Kalistová H, Jech R, Řasová M, Zemanová P, Zeman J, Ibrahim I, **Martinková P**, Doležil D, Jandová D. Bimanual Tandem Motor Task with Multiple Sclerosis in Functional Magnetic Resonance Imaging: Effect of Physiotherapeutic Techniques - a Pilot Study. *Česká a Slovenská neurologie a neurochirurgie*, 72(4), pp. 350-358, 2009.
- [7] **Martinková P**, Zvára K. Reliability in the Rasch Model. *Kybernetika*, 43(3), pp. 315-26, 2007.
- [8] **Martinková P**, Zvára jr. K, Zvárová J, Zvára K. The New Features of the Exame Evaluation System and Reliability of Its Fixed Tests. *Methods of Information in Medicine*, 45(2), pp. 310-315, 2006.
- [9] Řasová K, Havrdová E, Brandejský P, Zálišová M, Foubíková B, **Martinková P**. Comparison of the Influence of Different Rehabilitation Programmes on Clinical, Spirometric and Spiroergometric Parameters in Patients with Multiple Sclerosis. *Multiple Sclerosis*, 12(2), pp. 227-234, 2006.
- [10] Řasová K, Krásenský J, Havrdová E, Obenberger J, Seidel Z, Doležal O, **Rexová P**, Zálišová M. Is it Possible to Actively and Purposely make use of Plasticity and Adaptability in the Neurorehabilitation Treatment of Multiple Sclerosis Patients? A Pilot Project. *Clinical Rehabilitation*, 19(2), pp. 170-181, 2005.
- [11] Vášková M, Mejstříková E, Kalina T, **Martinková P**, Omelka M, Trka J, Starý J, Hrušák O. Transfer of Genomics Information to Flow Cytometry: Expression of CD27 and CD44 Discriminates Subtypes of Acute Lymphoblastic Leukemia. *Leukemia*, 19(5), pp. 876-878, 2005.

Conferences (abstracts and proceedings):

- [12] Vejražka M, Štuka Č, **Martinková P**, Trnka J, Komenda M. E-assessment – modern trends. *6th International Conference of Czech and Slovak Faculties of Medicine*, pp. 11, 2012. Workshop presented at MEFANET 2012, Brno, Czech Republic.
- [13] Řasová K, **Martinková P**, Henze, T. Towards an Inventory of the Content of Physical Rehabilitation in Europe. *Lifelong Perspective: Rehabilitation for MS Patients with Complex Needs*, University of Turku, pp. 24, 2011. Presented at RIMS 2011, Turku, Finland.
- [14] Ibrahim I, Tintěra J, Škoch A, Jírů F, Hlušík P, **Martinková P**, Zvára K, Řasová K. Fractional anisotropy and mean diffusivity in the corpus callosum of patients with multiple sclerosis: the effect of physiotherapy. *Magnetic Resonance Materials in Physics, Biology and Medicine*. 24(Suppl. 1), pp. 291, 2011. Presented at ESMRMB 2011, Leipzig, Germany.
- [15] **Martinková P**, Řasová K. Statistical Analysis of Questionnaire on Physical Rehabilitation in Multiple Sclerosis. *Česká a Slovenská neurologie a neurochirurgie*, 3, pp. S340, 2010. Presented at RIMS 2010, Praha, Czech Republic.
- [16] **Martinková P**, Šedová M, Řasová K. Reliability of clinical functioning measures in patients with multiple sclerosis. *30th Annual Conference of the International Society for Clinical Biostatistics*, pp. 147, 2009. Presented at ISCB 2009, Praha, Czech Republic.
- [17] Řasová K, Kalistová H, Kučera P, Juzová O, Zimová D, Medová E, **Martinková P**, et al. Impact of neurorehabilitation on immune parameters in multiple sclerosis. *Multiple Sclerosis*. 15(Suppl. 2), pp. S146-S147, 2009. Presented at ECTRIMS, 2009, Dusseldorf, Germany.
- [18] **Martinková P**, Zvára K. Reliability of Composite Dichotomous Measurements. *29th Annual Conference of the International Society for Clinical Biostatistics*, pp. 93, 2008. Presented at ISCB 2008, Copenhagen, Denmark.
- [19] Šedová M, **Martinková P**, Gabalec L. Assessment and comparison of two questionnaires of quality of life in Crohn's disease patients. *Lifestat 2008. Statistics and Life Sciences: Perspective and Challenges*, pp.224. Presented at Lifestat, 2008, Munich, Germany.
- [20] Zvárová J, **Martinková P**, Zvára, K. Education in Biostatistics with the Support of e-learning Tools. *Lifestat 2008. Statistics and Life Sciences: Perspective and Challenges*, pp. 186. Presented at Lifestat, 2008, Munich, Germany.
- [21] **Martinková, P**. Reliability of Educational Tests. *Doktorandský den '06. Ústav informatiky AV ČR & MATFYZPRESS*, pp. 64-71. Presented at Week of doctoral students 2006, Moníec, Czech Republic.
- [22] Řasová K, Krásenský J, Tintěra J, Kalistová H, Zálišová M, **Martinková P**, et. al. An interhemispheric cooperation and clinical function in multiple sclerosis. *Multiple Sclerosis*. 12(Suppl), pp. S149, 2006. Presented at ECTRIMS 2006, Madrid, Spain.
- [23] Zvárová J, Zvára K, Hanzlíček P, **Martinková P**, Valenta Z. Dissemination and evaluation tools for eHealth products, services and distance education. *E-Health*, pp. 106-109, 2006. Presented at Med-e-tel 2006, Luxexpo, Luxembourg.