

Curriculum Vitae / Resume

Mgr. Matúš Maciak, M.Sc., 2009

Personal details

I

Full name: Mgr. Matúš Maciak, M.Sc.
Date of Birth: 20th June 1982
Nationality: Slovak
Family status: single
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Education and Qualifications

II

◇ *Schools:*

2006 - present Charles University in Prague, Czech Republic.
↔ PhD. study program at the Faculty of Mathematics and Physics;
(*Department of Probability and Mathematical Statistics*)
2007 - 2008 Universiteit Hasselt, Belgium.
↔ M.Sc. in Biostatistics program at Centrum voor Statistiek;
2001 - 2006 Charles University in Prague, Czech Republic.
↔ master in statistics program at the Faculty of Mathematics and Physics;
(*Department of Probability and Mathematical Statistics*)
1998 - 2001 Music school in Levoča, Slovak Republic.
↔ general playing the guitar and the appropriate music theory;
1997 - 2001 Catholic College GsFA in Levoča, Slovak Republic.
↔ general educational program;

◇ *Activities:*

‡ PhD. dissertation: **Discontinuity in Nonparametric Regression**, since 2006.
(*under the supervising of Prof. RNDr. Marie Hušková, CSc., MFF UK*)
‡ Conferences: **IASC-ERS'09**, September 2009, Pamporovo, Bulgaria.
Contribution to Local Polynomial M-smoothers in Testing and Estimating;
EMS'09, July 2009, Toulouse, France.
Poster contribution to Local Polynomial M-smoothers with Change-points;
Stochastika 2009, February 2009, Kohútka, Czech Republic.
Oral contribution to Local Polynomial M-smoothers: testing and estimating;
FM: Smoothing & Robustness, November 2008, Leuven, Belgium.
A participant at the conference;
ROBUST'08, September 2008, Pribylina, Slovakia.
Poster and oral contribution to Splines with change-points;
Week of Doctoral Students 2007, June 2007, Prague, Czech Republic.
Oral contribution to M-Smothers in Testing and Estimating;

ROBUST'06, January 2006, Lhota nad Rohanovem, Czech Republic.
Poster and oral contribution on Computational Aspects of Bootstrap;

↳ Invited talks: 3 days stay at **Slovak Academy of Science**, November 2009, Bratislava.
Invited speaker: Local Polynomial M-smoothers & Change-points;

One month stay at **University of Hamburg**, May 2007, Germany.
Invited speaker: Semiparametric and Nonparametric Additive Regression;

PASt, Problems of Applied Statistics, Prague, Czech Republic.
Invited speeches in 2006 and 2008: Nonparametric regression approaches;

↳ Publications: Maciak, M., Aerts M., Hens N. (2010? - in a preparation process).
Adaptive Change-Point Penalized Splines.

Maciak, M. (2008). **Spline models with Change-points.**
ROBUST'08 Proceedings of Contributed Papers, 239-246.

Maciak, M. (2008). **Spline Models with Change-points Applied to Seroprevalence Data.** *Master thesis at University of Hasselt, Belgium.*

Maciak, M. (2007). **M-smoothers in Testing and Estimating.**
WDS'07 Proceedings of Contributed Papers, [Part I], 73, 169-174.

Maciak, M. (2006). **Additive regression models with regression splines.**
Master thesis at Charles University in Prague, Czech Republic.

↳ Projects: **Spline models with change-points applied to seroprevalence data.**
↔ a summer project at University of Hasselt, Belgium in 2008;

Adaptive Mixture models.

↔ co-project with Colosseum a.s. and UTIA AV ČR, in 2006-2007;

↳ Competitions: **SVOC 2006**, Bratislava, Slovak Republic in 2006.
- international Czech and Slovak competition - oral contribution;

◇ *Professional memberships:*

since 2009 a member of the Öesterreichischer Alpenverein, Austria EU;
since 2006 a member of the Czech Statistical Company - STATSPOL;
since 2000 a member of the National Geographic Society, Washington D.C.;

Trainings

III

Nov. 2008 Penalised Spline Smoothing and Geoaddivitive Regression (Leuven, Belgium)
2004 - 2005 English First Certificate Preliminary Course (Prague, Czech Republic)

Communication skills

IV

English - well spoken and written ability
German - well spoken and written ability
Czech - well spoken and written ability
Spanish - just a basic knowledge
Slovak - mother tongue

Employment History

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2007 - 2009 Charles University in Prague, Faculty of Mathematics and Physics.
/position: researcher at Dep. of Probability and Mathematical Statistics/
2007 Individual building contractor, Spokane, Washington state, USA.

	<i>/position: summer job as a building contractor/</i>
2006 - 2007	Colosseum a.s. - licenced broker at the futures markets. <i>/position: Asset management and analysis/</i>
2004 - 2006	External cooperation with ETP Slovakia organization in Levoča. <i>/position: statistical researches and photographic works/</i>
2006	Individual building contractor, Twin Lakes Park, Pennsylvania state, USA. <i>/position: summer job as a building contractor/</i>
2004 - 2005	The Boston Consulting Group, Prague, Czech Republic. <i>/position: statistical researches and data collection/</i>
2004	Idlewild and Soak Zone Park in Ligonier, Pennsylvania state, USA. <i>/position: summer job at the roller coasters provider/</i>
2003 - 2004	External cooperation with CPK Slovakia organization in Levoča. <i>/position: photographer and photographic works/</i>
2003	Dittersdorfer Präzisionsmechanik, Wonneberger GmbH, Glashütte, Germany. <i>/position: a temporary summer job/</i>
1997 - 2001	Catholic College GsFA in Levoča, Slovak Republic. <i>/position: an occasional college photographer/</i>
1997 - 2001	Tourist Information Agency, Levoča town, Slovakia <i>/position: a temporary summer job (sales and information)/</i>

Special skills

VI

- working with PC, OS MS Windows (98, 2000, Me, XP, Vista, 7), OS Linux;
- internet, networks, MS Office, OpenOffice and another used software;
- programming - C, Borland Pascal, MatLab, WealthLab;
- statistical software S-plus, R, SAS, NCSS, Mathematica, MuPad;
- working with LaTeX and synTex and related software;
- creating of HTML pages (HTML, Java Script, CSS, PHP, SQL - basic knowledge);
- driving licence - type B (since 2000);

Personal Interests

VII

literature, literary production (a newspaper blog), photography, sport climbing, skiing, tennis, swimming, mountain hiking, and many others;

References

VII

◇ Prof. RNDr. Marie Hušková, DrSc.

Charles University in Prague, Faculty of Mathematics and Physics.

(a member of AMS, ASA, ISI, IMS and a member of body of editors in Journal of Statistical Planning and Inference, Statistics and also in Sequential Analysis)

◇ Ing. Štěpán Pírko

*Head of Asset Management department at Colosseum a.s., Prague, Czech Republic.
(licenced broker by National Futures Association (NFA))*