

CURRICULUM VITAE - RESUME

Mgr. Matúš Maciak, M.Sc., 2011

□ Personal Details

I

Full name: Mgr. Matúš Maciak, M.Sc.
Date/place of birth: 20th June 1982

Nationality: Slovak
Family status: single
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□ Qualifications and Experiences

II

⇒ *Education History:*

2006 - 2011 **Ph.D. student in Mathematical Statistics**
Department of Probability and Mathematical Statistics
Charles University in Prague || *Faculty of Mathematics and Physics*

2007 - 2008 **M.Sc. student in Biostatistics**
Centrum voor Statistiek;
Universiteit Hasselt || *Diepenbeek, Belgium*

2001 - 2006 **Mgr. student in Probability and Mathematical Statistics**
Department of Probability and Mathematical Statistics
Charles University in Prague || *Faculty of Mathematics and Physics*

1998 - 2001 **General student on Playing the Guitar**
Primary Music School || *Levoča, Slovak Republic*

1997 - 2001 **High school student on general education**
Christian Catholic College GsFA || *Levoča, Slovak Republic*

⇒ *Theses & Dissertation:*

PhD. thesis **Flexibility, Robustness and Discontinuities
in Nonparametric Regression Approaches**
Supervisor: Prof. RNDr. Marie Hušková, CSc. || *submitted*

Master thesis **Spline Models with Change-points
Applied to Seroprevalence Data**
Supervisor: Prof. Marc Aerts & Dr. Niel Hens || *defended in 2008*

Master thesis **Additive Regression Models with Regression Splines**
Supervisor: Doc. Peter Volf, CSc. || *defended in 2006*

⇒ **Conferences & Workshops:**

- September 2010 Workshop **Fouriers meets Wavelets**
Karlsruhe, Germany. (participant)
- August 2010 Conference **Prague Stochastics 2010**
Prague, Czech republic. (contributed talk)
- August 2010 Conference **European Meeting of Statisticians - EMS'10**
Athens - Pireaus, Greece. (contributed talk)
- June 2010 Conference **ICORS 2010**
Prague, Czech republic. (contributed talk)
- March 2010 Conference on **Resampling Methods**
and High Dimensional Data
College Station, TX, USA. (contributed talk)
- January 2010 Conference **ROBUST'10**
Krátky, Czech republic. (poster and oral contribution)
- September 2009 Conference **IASC-ERS'09**
Pamporovo, Bulgaria. (poster)
- July 2009 Conference **European Meeting of Statisticians - EMS'09**
Toulouse, France. (poster)
- February 2009 Workshop **Stochastika 2009**
Kohútka, Czech Republic. (oral contribution)
- November 2008 Workshop **Flexible Modelling: Smoothing & Robustness**
Leuven, Belgium. (participant)
- September 2008 Conference **ROBUST'08**
Pribylina, Slovakia. (contributed talk)
- June 2007 Conference **Week of Doctoral Students - WDS'07**
Prague, Czech Republic. (contributed talk)
- January 2006 Conference **ROBUST'06**
Lhota nad Rohanovem, Czech Republic. (poster)

⇒ **Invited Talks:**

- January 2011 **Scottish Environment Protection Agency, Scotland, UK.**
Talk: *Comparability Criteria and Statistical Methods in Annex V;*
- November 2010 **Bundesministerium für Land- und Forstwirtschaft, Austria.**
Talk: *The Basic Statistical Principles of Annex V;*
- August 2010 **European Commission - Joint Research Center, Italy.**
Talk: *Statistical Methods and New Proposals for Annex V;*
- November 2009 **Slovak Academy of Science, Slovak Republic.**
Talk: *Local Polynomial M-smoothers and Change-points;*
- May 2007 **University of Hamburg, Germany.**
Talk: *Semiparametric and Nonparametric Additive Regression;*
- October 2008 **PASt, Charles University in Prague, Czech Republic.**
Talk: *Spline Models with Change-points with Seroprevalence data;*
- March 2006 **PASt, Charles University in Prague, Czech Republic.**
Talk: *Semiparametric and Nonparametric Additive Regression Models;*

⇨ **Publications:**

- Maciak, M., Aerts M., Hens N. (2011(?)).
Adaptive Change-Point Penalized Splines - in a preparation process.
- Maciak, M. (2010). **Bootstrapping of M-smoothers.**
Acta Universitatis Carolinae, Suppl.2, AUC 51 - to appear.
- 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, University of Hasselt, Diepenbeek, 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, Charles University in Prague, Czech Republic.

⇨ **Project Participation:**

- 2010 - 2011 **Incalibration Exercise - Annex V.**
European Commission project supervised by JRC, Ispra, Italy;
Involvement: head of statistics and statistical analysis;
- 2006 - 2007 **Adaptive Mixture models**
Co-project of Colosseum a.s. and UTIA AV ČR;
Involvement: head of data analysis and evaluation;

⇨ **Competitions:**

- Summer 2006 **SVOČ 2006**, Bratislava, Slovak Republic.
International Czech and Slovak competition of graduate students;
- Summer 2000 **Bienále 2000**, Žilina, Slovak Republic
Photographical competition for non-professionals;

⇨ **Special Trainings:**

- Nov. 2008 **Penalised Spline Smoothing and Geoadditive Regression**
Katholieke Universiteit in Leuven, Belgium;
- 2004 - 2005 **English First Certificate Preliminary Course**
Charles University in Prague, Czech Republic;

☐ **Professional Memberships:**

III

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

☐ **Communication Skills**

IV

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

□ Employment History

V

2010 - present	Petit press: SME online newspaper, Bratislava, Slovak Republic. <i>/position: online newspaper-blog administrator/</i>
2010 - present	T.G. Masaryk Water Research Institute, Prague, Czech Republic. <i>/position: head statistician and analyst/</i>
2007 - 2009	Charles University in Prague, Czech Republic. <i>/position: researcher and teacher/</i>
Summer 2007	Individual building contractor, Spokane, WA, USA. <i>/position: building contractor - summer job/</i>
2006 - 2007	Colosseum a.s., Prague, Czech Republic. <i>/position: Asset management and analysis/</i>
2004 - 2006	ETP Slovakia, Levoča, Slovak Republic. <i>/position: external statistical researcher and photographer/</i>
Summer 2006	Individual building contractor, Twin Lakes Park, PA, USA. <i>/position: building contractor - summer job/</i>
2004 - 2005	The Boston Consulting Group, Prague, Czech Republic. <i>/position: statistical researcher and data collector/</i>
Summer 2004	Idlewild and Soak Zone Park in Ligonier, PA, USA. <i>/position: roller coasters attendant - summer job /</i>
2003 - 2004	CPK Slovakia, Levoča, Slovak Republic. <i>/position: external photographer/</i>
Summer 2003	Dittersdorfer Präzisionsmechanik, Wonneberger GmbH, Germany. <i>/position: construction engineer/</i>
1997 - 2001	Christian Catholic College GsFA, Levoča, Slovak Republic. <i>/position: occasional college photographer/</i>
1997 - 2001	Tourist Information Agency, Levoča, Slovakia. <i>/position: salesman and informer/</i>

□ Special Skills

VI

- working with PC, OS MS Windows, OS Linux, Macintosh;
- internet & networking, MS Office, OpenOffice, etc.;
- programming: C++, Borland Pascal, MatLab, WealthLab;
- statistical software: SAS, S-plus, R, NCSS, Mathematica, MuPad;
- working with \LaTeX and related software;
- web pages: HTML, Java Script, CSS, PHP, SQL;
- driving licence - type B (since 2000);
- professional wedding and coverage photographer;

□ Individual Interests

VII

Literature	- books, literary production (newspaper blogs);
Mountaineering	- climbing, skialpinism, mountain hiking, rock climbing;
Sport activities	- skiing, cycling, tennis, swimming, and many others;

☞ **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)

☞ **Mgr. Ondřej Slavík, Ph.D.**

(T.G.M. Water Research Institute, public research institution)

(Head of Department of Applied Ecology, Prague, Czech Republic)

☞ **Ing. Štěpán Pírko**

Head of Asset Management at Colosseum a.s., Prague, Czech Republic.

(licenced broker by National Futures Association (NFA))