

# MICHAL JURASKA

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## CONTACT INFORMATION

University of Washington  
Department of Biostatistics  
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## EDUCATION

### **University of Washington, Seattle, WA, USA**

- Ph.D. Candidate in Biostatistics, Department of Biostatistics, May 2011  
Dissertation title: **Sieve Analysis in HIV-1 Vaccine Efficacy Trials with Multivariate and Missing Marks**  
Dissertation adviser: Peter B. Gilbert, Ph.D.
- M.S. in Biostatistics, Department of Biostatistics, 2009

### **Charles University, Prague, Czech Republic**

- M.S. in Mathematical Statistics, Department of Probability and Mathematical Statistics, School of Mathematics and Physics, 2007  
Master thesis title: Cointegration of Economic Time Series

### **Kansas State University, Manhattan, KS, USA**

- Graduate Exchange Student, Department of Statistics, 2004 – 2005

## PROFESSIONAL EXPERIENCE

### **Statistical Center for HIV/AIDS Research and Prevention, Fred Hutchinson Cancer Research Center, Seattle, WA, USA**

- Research Assistant, 2008 - Present
  - Statistical assessment of differential vaccine protection in HIV vaccine trials (Supervisor: Peter B. Gilbert, Ph.D.)
  - Model development for estimation of the median residual life function (Supervisor: Ying Q. Chen, Ph.D.)

### **University of Washington, Seattle, WA, USA**

- Research Assistant, 2007 – 2008
  - Measurement error modeling
  - Evaluation of longitudinal changes in carotid intima-media thickness and risk of cardiovascular events: The Cardiovascular Health Study (Supervisor: N. David Yanez, Ph.D.)

### **Kooperativa Insurance Company, Prague, Czech Republic**

- Statistician, Division of Insurance Mathematics, 2005
  - Stochastic modeling in claims reserving

## TEACHING EXPERIENCE

### **University of Washington, Seattle, WA, USA**

- Teaching Assistant, Department of Biostatistics, 2010  
Held office hours, led required discussion sections, graded weekly homeworks  
Biost 517: Applied Biostatistics I (Instructor: Scott S. Emerson, M.D., Ph.D.)

CONSULTING  
EXPERIENCE

**University of Washington, Seattle, WA, USA**

- Statistical Consultant, Department of Biostatistics, 2011  
Provided assistance with choice of statistical methods, computation, and data analysis
  - Study of hypotony following trabeculectomy surgery (collaboration with Glaucoma Consultants Northwest)

HONORS AND  
AWARDS

**University of Washington, Seattle, WA, USA**

- Department of Biostatistics Travel Award, 2008
- University of Washington Top Scholar Award, 2007
- Department of Biostatistics Pfizer Award, 2007

**Charles University, Prague, Czech Republic**

- Student Scientific Competition SVOČ (2<sup>nd</sup> place), Category: Probability, Mathematical Statistics, Econometrics, and Financial Mathematics, 2007
- School of Mathematics and Physics Outstanding Student Stipend, 2003

PUBLICATIONS

- Lorenz MW, Bickel H, Bots ML, Breteler MMB, Catapano AL, Desvarieux M, Hedblad B, Iglseider B, Johnsen SH, **Juraska M**, Kiechl S, Mathiesen EB, Norata GD, Grigore L, Polak J, Poppert H, Rosvall M, Rundek T, Sacco RL, Sander D, Sitzer M, Steinmetz H, Stensland E, Willeit J, Witteman J, Yanez D, Thompson SG: Individual progression of carotid intima media thickness as a surrogate for vascular risk (PROG-IMT): Rationale and design of a meta-analysis project. *American Heart Journal*, 159(5): 730-736, 2010.
- Yanez ND, Hu CC, Lumley TS, Andre M, **Juraska M**: Assessing the impact of measurement error in modeling change. A sensitivity analysis approach. *Submitted Statistics in Medicine*.

MANUSCRIPT IN  
PREPARATION

- **Juraska M** and Gilbert PB: Mark-specific hazard ratio model with multivariate continuous marks: An application to vaccine efficacy. *To be submitted to Biometrics*.

SOFTWARE  
CONTRIBUTION

R package development

- speff2trial – estimation and testing of the treatment effect in a two-group randomized clinical trial with a quantitative, dichotomous, or right-censored time-to-event endpoint (<http://cran.r-project.org/web/packages/speff2trial/>)

PRESENTATIONS

**Joint Statistical Meetings, Miami Beach, FL, 2011**

- “Sieve Analysis in HIV Vaccine Efficacy Trials with Multivariate and Missing Marks”

**Department of Biostatistics General Examination, 2011**

**Department of Biostatistics Student Seminar, 2011**

- “Sieve Analysis in HIV Vaccine Efficacy Trials with Multivariate and Missing Marks”

**Department of Biostatistics Biology Project, 2010**

- “Neutralizing Antibody Responses and the Evolution of HIV-1 Envelope during Acute HIV Infection”

**ENAR Spring Meetings, San Antonio, TX, 2009**

- “Longitudinal Changes in Carotid IMT and Risk of MI, Stroke, and CHD: The Cardiovascular Health Study”

DEPARTMENT  
SERVICE

**University of Washington, Seattle, WA, USA**

- Member, Admissions Committee, Department of Biostatistics, 2008 – 2009

LANGUAGES

German (fluent)

CITIZENSHIP

Slovak (US Visa Status: F1)