

# EMIN TAHIROVIC, PH.D.

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(replace capital italics with corresponding signs)

## EDUCATION

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Ph.D. in Biostatistics, August 2016

**University of Pennsylvania**, Philadelphia, PA

Thesis: Sensitivity analysis for longitudinal data with dropout in G-estimation based estimators

Advisors: Andrea B. Troxel

Committee: Sharon X. Xie, Kevin G. Lynch, Kevin G. Volpp

M.S. in Biostatistics, May 2012

**University of Pennsylvania**, Philadelphia, PA

Thesis: Accounting for intra-tumor biomarker expression heterogeneity in tissue microarray experiments

Advisor: Phyllis A. Gimotty

Diplom-Informatiker (standalone degree comparable to M.Sc. in Computer Science, Mathematics minor),  
August 2008

**Johan Wolfgang Goethe University**, Frankfurt, GERMANY

Thesis: Almost uniform sampling

Advisor: Georg Schnitger, Prof. Dr.

## RESEARCH INTERESTS

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longitudinal and clustered data, sensitivity analysis for non-ignorable missingness, causal inference, machine learning algorithms, financial and organizational incentives for health outcomes, cancer epidemiology, outcomes research

## RELEVANT EXPERIENCE

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*Assistant Professor* 2017–present

Department of Software Engineering, International University Sarajevo,  
Sarajevo, B & H

*Research Assistant* 2013–2016

Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania,  
Philadelphia, PA

- Collaborate with researchers in Center for Health Incentives and Behavioral Economics

*Research Assistant* 2010–2013

Center for Clinical Epidemiology and Biostatistics, University of Pennsylvania,  
Philadelphia, PA

- Collaboration with researches in oncology and cancer epidemiology:

*IT Consultant*, 03/2009 - 05/2010  
DB System, Frankfurt, Germany

## PUBLICATIONS

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### Submitted and peer-reviewed publications

1. Maxwell KN, Soucier-Ernst D, **Tahirovic E**, Troxel AB, Carpenter E, Colameco C, Clark C, Feldman M, Kakrecha B, Langer M, Lewis D, Lieberman D, Morrissette J, Paul MR, Pan T, Yee S, Shih N, Chodosh LA, DeMichele A, "Comparative Clinical Utility of Tumor Genomic Testing and Cell-Free DNA in Metastatic Breast Cancer" (Breast Cancer Res Treat,1-12; May 2017)
2. Aysola J, **Tahirovic E**, Troxel AB, Asch DA, Gangemi K, Hodlofski AT, Zhu J, Volpp K, "A Randomized Controlled Trial of Opt-in Versus Opt-Out Enrollment into a Diabetes Management Intervention" (American Journal of Health Promotion, October 2016)
3. **Tahirovic E**, Troxel AB, "Using linear increments (LI) to estimate marginal parameters in longitudinal data with dropout" (submitted to International Journal of Biostatistics, July 2016; currently incorporating modifications required by reviewers prior to acceptance, December 2017)
4. **Tahirovic E**, Troxel AB, "Sensitivity Analysis for Non-Ignorable Dropout of Marginal Treatment Effect in Longitudinal Trials for G-Computation Based Estimators" (Publicly Accessible Penn Dissertations. 2049.)
5. Taylor L, Abraham R, **Tahirovic E**, van Belle P, Li B, Elder D, Gimotty P, "High ALDH1 Expression Correlates with Better Prognosis in Tumorigenic Malignant Melanoma" Modern Pathology, 00: 1 - 6, 2017.
6. Serdarevic F, Ghassabian A, van Batenburg-Eddes T, **Tahirovic E**, White T, Vincent W.V. J, Verhulst F.C, Tiemeier H, "Infant Neuromotor Development and Childhood Problem Behavior" Pediatrics, Nov 2017, DOI: 10.1542/peds.2017-0884 .
7. Gopalan A, **Tahirovic E**, Moss H, Troxel AB, Zhu J, Loewenstein G, Volpp KG "Translating the Hemoglobin A1C with More Easily Understood Feedback: A Randomized Controlled Trial" JGIM: Journal of General Internal Medicine 29(7):996-1003, 2014.
8. Hwang WT, Adams S, **Tahirovic E**, Hagemann IS, Coukos G, "Prognostic significance of tumor-infiltrating T cells in ovarian cancer: a meta-analysis" Gynecological Oncology 124(2):192-8, 2012.

## HONORS AND AWARDS

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*Best "Diplom"*

Spring 2009

Best degree in the Department of Computer Science and Mathematics accompanied by a monetary award from "Logica GmbH"  
Johan Wolfgang Goethe University, Frankfurt, GERMANY

## PRESENTATIONS

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### Contributed Oral Presentation

*Achieving ignorability for dropout using iterative expectation - method comparison: extended SWEEP vs. linear increments*

August 2015

Joint Statistical Meeting: Seattle, WA

### Contributed Oral Presentation

*Sensitivity Analysis for Nonignorable Drop Out in Longitudinal Studies Using Semiparametric Selection Models*

August 2014

Joint Statistical Meeting: Boston, MA

## TEACHING EXPERIENCE

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- Assist. Prof.*, Introduction to Probability and Statistics Fall 2017  
Faculty of Software Engineering, Int. University of Sarajevo  
◦ One-semester core course for B.S. and M.S. students in the departments: GBE, IE, ME, EE
- Assist. Prof.*, Quantitative research Methods Fall 2017  
Faculty of Software Engineering, Int. University of Sarajevo  
◦ One-semester core course for B.S. and M.S. in social sciences
- Assist. Prof.*, Statistical Modeling for Engineers Spring 2017  
Faculty of Industrial Engineering, Int. University of Sarajevo  
◦ One-semester core course for B.S. and M.S. students in Industrial Engineering
- Teaching Assistant*, Biological Data Analysis Spring 2015  
Department of Biostatistics and Epidemiology, University of Pennsylvania  
◦ One-semester core course for 100 Ph.D. and M.S. students in Biomedical Graduate Studies
- Guest Lecturer*, Longitudinal Data Analysis April 11, 2014  
Department of Biostatistics and Epidemiology, University of Pennsylvania
- Teaching Assistant*, Longitudinal Data Analysis Spring 2014  
Department of Biostatistics and Epidemiology, University of Pennsylvania  
◦ One-semester core course for 12 Biostatistics Ph.D. and M.S. students focused on
- Teaching Assistant*, Design of Biomedical Studies Spring 2013  
Department of Biostatistics and Epidemiology, University of Pennsylvania  
◦ One-semester core course for 11 Biostatistics Ph.D. and M.S. students focused on statistical considerations and practices for the design of biomedical studies

## PROFESSIONAL MEMBERSHIPS

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- American Statistical Association  
International Biometric Society (Eastern North American Region)

## LANGUAGES

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- Croatian/Bosnian (native),  
German (full professional proficiency in reading, writing and speaking)  
English (full professional proficiency in reading, writing and speaking)

Updated: January 23, 2018