

# Tamás Ferenci

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E-MAIL ADDRESS    [tamas.ferenci@medstat.hu](mailto:tamas.ferenci@medstat.hu)

DATE AND PLACE OF BIRTH    Győr, 23 September 1985

NATIONALITY    Hungarian

RESEARCH INTERESTS    Biostatistics, critical appraisal of medical studies, development of teaching material for statistics, applied regression, machine learning, econometrics

EDUCATION    **Óbuda University**, Budapest, Hungary

PhD, John von Neumann Faculty of Informatics, February 2013 – June 2013

- Summa cum laude doctoral (PhD) degree (OE-D-011/2013)
- Title of dissertation: *Two Applications of Biostatistics in the Analysis of Pathophysiological Processes*
- Full time training, with state scholarship (entry result: 100.0%)
- Doctoral topic: *Biostatistical analysis and computer-supported investigation of pathophysiological processes*
- Doctoral advisor: Dr. Levente Kovács

**Budapest University of Technology and Economics**, Budapest, Hungary

PhD, Faculty of Electrical Engineering and Informatics, September 2010 – January 2013

- Full time training, with state scholarship (entry result: 100.0%)
- Doctoral topic: *Biostatistical analysis and computer-supported investigation of pathophysiological processes*
- Doctoral advisor: Dr. Levente Kovács

Applied Mathematics MSc, Faculty of Natural Sciences, September 2010 – June 2013

- University diploma with honours (BME-3804/2013)
- Title of university thesis: *The use of Fleishman distribution in the empirical investigation of statistical tests*
- University thesis advisor: Dr. Jenő Reiczigel, Dr. Márton Balázs
- Specialization: stochastics, subspecialization: statistics

Biomedical Engineering MSc, Faculty of Electrical Engineering and Informatics, February 2007 – February 2010

- University diploma with honours (BME-1248/2010)
- Title of university thesis: *Biostatistical modeling of the parameters of Hungarian children to investigate the effects of obesity* (in Hungarian)
- University thesis advisor: Dr. Levente Kovács

Technical Informatics MSc, Faculty of Electrical Engineering and Informatics, September 2004 – June 2009

- University diploma with honours (321/2009)
- Title of university thesis: *Biostatistical analysis of the parameters of Hungarian children related to obesity* (in Hungarian)
- University thesis advisors: Dr. Levente Kovács
- Specialization: Artificial intelligence (integrated intelligent systems)
- Further (voluntarily completed) specialization: Biomedical technology (sub-specialization, electrical engineering program)

## **Corvinus University of Budapest**, Budapest, Hungary

Logistical Management MSc, Faculty of Business Administration, February 2011 – February 2013

- University diploma with good qualification (GTK/M-044/2013)
- Title of university thesis: *Metaheuristics in logistics* (in Hungarian)
- University thesis advisor: Dr. Imre Dobos

Business and Management BA, Faculty of Business Administration, September 2006 – December 2009

- University diploma with honours (GTK/B-96/2010)
- Title of university thesis: *Quantitative inventory management models, and their solution with genetic algorithms*
- University thesis advisor: Dr. Imre Dobos
- Specialization: Theory of Management
- Further (voluntarily completed) specialization: Applied statistics (subspecialization, economics program)
- Further (voluntarily completed) specialization: Health economics and technology assessment (subspecialization, economics program)

## **Aquincum Institute of Technology**, Budapest, Hungary

As a scholarship winner from Budapest University of Technology and Economics, February 2011 – June 2011

- Data Mining, Part 1. (Grade A pass)
- Data Mining, Part 2. (Grade A pass)

## **Fazekas Mihály Secondary School**, Budapest, Hungary

Secondary school, September 2000 – June 2004

- High-school graduation with excellent qualification (B-6/2004)
- Specialization: specialized natural sciences-technical class

## ACADEMIC POSITIONS

### **Associate professor**

February 2020 –

Physiological Controls Research Center,  
John von Neumann Faculty of Informatics,  
Institute of Biomatics,  
Óbuda University

- Courses:
  - Basics of evidence based medicine
    - Participation in delivering lectures (for computer science and engineering (MSc) students), developing teaching material in Hungarian
  - Application of biostatistical methods
    - Participation in delivering lectures (for computer science and engineering (MSc) students), developing teaching material in Hungarian
  - Multivariate statistical methods
    - Participation in delivering lectures, practices (for applied mathematics (MSc) students) in Hungarian and in English
  - Security of Information Systems, Fundamentals of Information Security
    - Delivering lectures, developing teaching material in Hungarian

### **Senior lecturer**

December 2014 – January 2020

Physiological Controls Research Center,  
John von Neumann Faculty of Informatics,  
Institute of Biomatics,  
Óbuda University

- Courses:

- Basics of evidence based medicine
  - Participation in delivering lectures (for computer science and engineering (MSc) students), developing teaching material in Hungarian
- Application of biostatistical methods
  - Participation in delivering lectures (for computer science and engineering (MSc) students), developing teaching material in Hungarian
- Introduction to Biomedical Engineering (in Hungarian)
  - Participation in delivering lectures (elective course), developing teaching material in Hungarian and in English
- Multivariate statistical methods
  - Participation in delivering lectures, practices (for applied mathematics (MSc) students) in Hungarian and in English
- Queuing Theory, Security of Information Systems, Fundamentals of Information Security, Information Theory and Coding
  - Delivering lectures, practices, developing teaching material in Hungarian
- Electronics, Digital Technology, Information Theory and Coding, Digital Systems, Fundamentals of Information Security
  - Delivering lectures, practices, developing teaching material in English

**Assistant lecturer**

September 2013 – November 2014

Physiological Controls Group,  
John von Neumann Faculty of Informatics,  
Institute of Biomatics,  
Óbuda University

- Courses:
  - Introduction to Biomedical Engineering
    - Participation in delivering lectures (elective course), developing teaching material in Hungarian and in English
  - Queuing Theory, Security of Information Systems, Information Theory and Coding, Digital Technology
    - Delivering lectures, practices, developing teaching material in Hungarian
  - Electronics, Digital Technology, Information Theory and Coding, Digital Systems
    - Delivering lectures, practices, developing teaching material in English

**Visiting lecturer**

September 2017 –

Department of Public Health,  
Faculty of Medicine,  
Semmelweis University

- Courses:
  - Methodological questions of medical researches
    - Delivering lecture and practices (for medicine (single long cycle programme) students), developing teaching material in Hungarian
  - Public health I.
    - Delivering practical course (for medicine (single long cycle programme) students), developing teaching material in Hungarian
  - Public health II.
    - Delivering practical course (for medicine (single long cycle programme) students), developing teaching material in Hungarian

**Part-time associate professor**

September 2018 –

Department of Statistics,  
Faculty of Economics,  
Corvinus University of Budapest

- Courses

- Econometrics
  - Delivering lectures, practices (for Finance MSc students), developing teaching material in Hungarian
- Econometrics I.
  - Delivering lectures (for applied economics BA students), developing teaching material in Hungarian
- Econometrics II.
  - Delivering lectures (for applied economics BA students), developing teaching material in Hungarian
- Cross-sectional and panel econometrics
  - Delivering lectures, practices (for economic analysis MSc students) in Hungarian
- Statistics
  - Delivering lectures (for economic analysis MSc students) in Hungarian

**Part-time senior lecturer**

September 2016 – August 2018

Department of Statistics,  
Faculty of Economics,  
Corvinus University of Budapest

- Courses
  - Econometrics
    - Delivering lectures, practices (for Finance MSc students), developing teaching material in Hungarian
  - Econometrics I.
    - Delivering lectures (for applied economics BA students), developing teaching material in Hungarian
  - Econometrics II.
    - Delivering lectures (for applied economics BA students), developing teaching material in Hungarian
  - Cross-sectional and panel econometrics
    - Delivering lectures, practices (for economic analysis MSc students) in Hungarian
  - Statistics
    - Delivering lectures (for economic analysis MSc students) in Hungarian

**Visiting lecturer**

September 2010 – August 2016

Department of Statistics,  
Faculty of Economics,  
Corvinus University of Budapest

- Courses:
  - Econometrics
    - Delivering lectures (for Finance MSc students), developing teaching material in Hungarian
  - Introduction to Econometrics
    - Delivering lectures, practices (for applied economics BSc and business and management BA students), developing teaching material in Hungarian
  - Survey methods
    - Delivering lectures (for international economy and management MA students), developing teaching material in Hungarian

**Demonstrator**

September 2009 – June 2010

Department of Statistics,  
Faculty of Economics,  
Corvinus University of Budapest

- Courses:
  - Introduction to Econometrics

	<ul style="list-style-type: none"> <li>• Delivering lecture (for economics MSc students) in Hungarian</li> <li>• <b>Statistics II.</b></li> <li>• Delivering practice (for applied economics BA and finance accounting BA students) in Hungarian</li> </ul>
PAST VISITING LECTURER POSITIONS	<ul style="list-style-type: none"> <li>• Budapest University of Technology and Economics, Mathematical Institute (Mathematics L3c – Mathematical statistics, Statistics and Experimental Design)</li> <li>• Central European University, Department of Mathematics and its Applications (Advanced Time Series Analysis)</li> </ul>
COURSES IN COLLEGES FOR ADVANCED STUDIES	<ul style="list-style-type: none"> <li>• University of Miskolc, Hantos Elemér College for Advanced Studies (Stochastic time series analysis)</li> <li>• Széchenyi István College for Advanced Studies (Stochastic time series analysis)</li> <li>• Corvinus University of Budapest, Society of Young Autonomous Economists (Advanced econometrics)</li> <li>• Budapest University of Technology and Economics, Liska Tibor College for Advanced Studies (Cross-sectional econometrics, Time series econometrics)</li> <li>• Corvinus University of Budapest, Heller Farkas College for Advanced Financial Studies (Financial econometrics, Time series econometrics)</li> <li>• Corvinus University of Budapest, Rajk László College for Advanced Studies (Financial econometrics I., Financial econometrics II.)</li> <li>• Corvinus University of Budapest, Empirical Finance Research Program (Basics of econometrics, Advanced econometrics)</li> </ul>
PHD DEGREE	Óbuda University, 5 July, 2013 (OE-D-011/2013)
HABILITATION	Óbuda University, 17 October, 2019 (OE-H-025/2019)
PUBLICATIONS	Publication list in the MTMT publication database
MOST IMPORTANT PUBLICATIONS	<p>Ferenci Tamás: About vaccines – based on facts (in Hungarian). Medicina Publishing House, 2014 (first edition) 375 p, 2016 (second, extended edition) 508 p.</p> <p>Kolossváry E, Ferenci T, Kováts T, Kovács L, Járai Z, Menyhei G, Farkas K. Trends in Major Lower Limb Amputation Related to Peripheral Arterial Disease in Hungary: A Nationwide Study (2004-2012). Eur J Vasc Endovasc Surg. 2015 Jul;50(1):78-85.</p> <p>Ferenci T, Körner A, Kovács L. The interrelationship of HbA1c and real-time continuous glucose monitoring in children with type 1 diabetes. Diabetes Res Clin Pract. 2015 Apr;108(1):38-44.</p> <p>Ferenci Tamás: Mistakes in medicine (in Hungarian). Article series in Interpress Magazin (IPM).</p>
THESIS ADVISING ACTIVITIES	<ul style="list-style-type: none"> <li>• <i>University diploma</i>: Budapest University of Technology and Economics, Faculty of Electrical Engineering and Informatics; Corvinus University of Budapest, Faculty of Business Administration; Óbuda University, John von Neumann Faculty of Informatics</li> <li>• <i>Students' Scientific Association</i>: Corvinus University of Budapest, Faculty of Business Administration: 3 papers (university 3<sup>rd</sup> place and national 1<sup>th</sup> place, 2 university 1<sup>th</sup> place), Corvinus University of Budapest, Faculty of Economics: 1 paper (university 2<sup>nd</sup> place)</li> </ul>
REVIEWING ACTIVITIES	<ul style="list-style-type: none"> <li>• <i>University diploma</i>: Budapest University of Technology and Economics, Faculty of Electrical Engineering and Informatics; Óbuda University, John von Neumann Faculty of Informatics</li> </ul>

- *Students' Scientific Association*: Budapest University of Technology and Economics, Faculty of Electrical Engineering and Informatics; Óbuda University, John von Neumann Faculty of Informatics; national round
  - *Conference*: CINTI, ICCG, IFAC, INES, NK, SACI, SAMI, SISY, SMC
  - *Journal*: Acta Physiologica Hungarica (Akadémiai Kiadó), Biomedical Signal Processing and Control (Elsevier), Computer Methods and Programs in Biomedicine (Elsevier), F1000Research (F1000), PLOS One (PLOS), Journal of Epidemiology and Community Health (BMJ Group), Journal of Biomedical and Health Informatics (IEEE), Journal of Pharmaceutical Health Services Research (Wiley)
- PARTICIPATION IN DOCTORAL PROCEDURES
- *Member of the final examination committee*: Semmelweis University, Doctoral School of Clinical Medicine
- GRANTS
- Ministry of Human Capacities
- New National Excellence Program, Postdoctoral Researcher Grant, UNKP-16-4/III, title of the research program: Application of complex models in epidemiologic studies, duration: September 2016 – June 2017.
  - New National Excellence Program, Young Researcher Grant, UNKP-17-4, title of the research program: Informatically supported biostatistical modelling in the services of medical research, duration: September 2017 – June 2018.
- European Research Council
- ERC Starting Grant, 679681, title of the research program: "Tamed cancer" – Personalized Cancer Therapy by Model-based Optimal Robust Control Algorithm, position: post doctoral researcher, duration: July 2018 –.
- AWARDS
- Óbuda University
- Commendation of the Rector, 2020 („for outstanding work in education at the Óbuda University”)
- Council of the Students' Scientific Association of the Corvinus University of Budapest
- Excellent Mentor Award, 2018 („in recognition of his conscientious and successful work supporting the Students' Scientific Association”)
- Board of Trustees of the Markusovszky Lajos Foundationa and the Editorial Board of Orvosi Hetilap
- Markusovszky Lajos Award, 2017 (“for his publication in Orvosi Hetilap that was deemed to be amongst the best in 2017”)
- John von Neumann Computer Society
- Kemény János Award, 2017 (“based on his excellent professional and publicational activity”)
- John von Neumann Faculty of Informatics, Óbuda University
- John von Neumann Publication Award, 2015 (“in recognition of his outstanding publication activity”)
- Scientific Committee of the 19<sup>th</sup> Conference on Vaccines
- Nyerges Gábor Award, 2013 (“in recognition of his outstanding work on vaccines”)
- Clinical Biostatistical Society
- Young Biostatistician of the Year, 2011

Department of Statistics,  
Faculty of Economics,  
Corvinus University of Budapest

- Mundruczó György Award, 2010 ("in recognition of his outstanding professional activity and activity as a demonstrator at the Department of Statistics")

Hungarian Central Statistics Office,  
Hungarian Statistical Society,  
Statistical Committee of the Hungarian Academy of Sciences

- Competition at the World Statistics Day (university diploma category): 1<sup>th</sup> place, 2010

Conference of the Students' Scientific Association

- National 1<sup>th</sup> place (2011, Economics Section)
- University 1<sup>th</sup> place (2009, Corvinus University of Budapest, Statistics and Econometrics Section)
- University 2<sup>nd</sup> place (2009, Budapest University of Technology and Economics, Biomedical Engineering and Signal Processing Section)
- Paper accepted for presentation (2009, 2010, Semmelweis University)

#### OTHER AWARDS

- *Kalmár László Applied Informatics Competition*: national 1<sup>th</sup> place, 2003
- „*Nyelvünkben élünk*” *Hungarian communication competition*: national 1<sup>th</sup> place, 1999
- *Bod Péter Library Science Competition*: national 3<sup>rd</sup> place, 2000
- *Verseny 2000 Informatics Competition*: best presentation award, 2000
- „*Édes anyanyelvünk*” *communication competition*: progress into national final, 2002
- *Szilárd Leó Nuclear Competition*: progress into national final, 2003

#### PROFESSIONAL QUALIFICATIONS

ECDL (European Computer Driving Licence)

- 2000, HU-199907290052003

Microsoft Certified Professional, MCP

- 2001, MCP 70-210 (retired: 2008. március)

Emergency medical technician

- 2009, Málta Ambulance Service, Budapest

#### LANGUAGES

**English**, advanced level

- Advanced level, type A (spoken), state recognized language certificate (228681), 2002
- Advanced level, type B (written), state recognized language certificate (213813), 2002
- Pitman Qualifications English for Speakers of Other Languages, First Class Pass, 2002
- Pitman Qualifications Spoken English for Speakers of Other Languages, First Class Pass, 2002, with City & Guilds Medal international award

**German**, advanced level

- Advanced level, type C (spoken and written), state recognized language certificate (228681), 2002 (348631), 2003
- Zentrale Mittelstufenprüfung, Goethe Institut, Budapest, 2003

#### MEMBERSHIPS

- Hungarian Clinical Biostatistical Society
- Hungarian Statistical Society (Branch of Statistics Education)
- Hungarian Diabetes Association

- Hungarian Society of Cardiology

HOBBIES, OTHER INTERESTS Long-distance running (best half-marathon time: 1:40:53, best marathon time: 3:56:42), hiking, submarine warfare.