

Tamás Ferenci

E-MAIL ADDRESS 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
 - Application of biostatistical methods
 - Multivariate statistical methods
 - Security of Information Systems, Fundamentals of Information Security

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
 - Application of biostatistical methods
 - Introduction to Biomedical Engineering (in Hungarian)
 - Multivariate statistical methods
 - Queuing Theory, Security of Information Systems, Fundamentals of Information Security, Information Theory and Coding
 - Electronics, Digital Technology, Information Theory and Coding, Digital Systems, Fundamentals of Information Security

- 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
 - Queuing Theory, Security of Information Systems, Information Theory and Coding, Digital Technology
 - Electronics, Digital Technology, Information Theory and Coding, Digital Systems
- Visiting lecturer** September 2017 –
Department of Public Health,
Faculty of Medicine,
Semmelweis University
- Courses:
 - Methodological questions of medical researches
 - Public health I.
 - Public health II.
- Part-time associate professor** September 2018 –
Department of Statistics,
Faculty of Economics,
Corvinus University of Budapest
- Courses
 - Econometrics
 - Econometrics I.
 - Econometrics II.
 - Cross-sectional and panel econometrics
 - Statistics
- Part-time senior lecturer** September 2016 – August 2018
Department of Statistics,
Faculty of Economics,
Corvinus University of Budapest
- Courses
 - Econometrics
 - Econometrics I.
 - Econometrics II.
 - Cross-sectional and panel econometrics
 - Statistics
- Visiting lecturer** September 2010 – August 2016
Department of Statistics,
Faculty of Economics,
Corvinus University of Budapest
- Courses:
 - Econometrics
 - Introduction to Econometrics
 - Survey methods
- Demonstrator** September 2009 – June 2010
Department of Statistics,
Faculty of Economics,
Corvinus University of Budapest
- Courses:

- Introduction to Econometrics
- Statistics II.

PAST VISITING LECTURER POSITIONS	<ul style="list-style-type: none"> • Budapest University of Technology and Economics, Mathematical Institute (Mathematics L3c – Mathematical statistics, Statistics and Experimental Design) • Central European University, Department of Mathematics and its Applications (Advanced Time Series Analysis)
COURSES IN COLLEGES FOR ADVANCED STUDIES	<ul style="list-style-type: none"> • University of Miskolc, Hantos Elemér College for Advanced Studies (Stochastic time series analysis) • Széchenyi István College for Advanced Studies (Stochastic time series analysis) • Corvinus University of Budapest, Society of Young Autonomous Economists (Advanced econometrics) • Budapest University of Technology and Economics, Liska Tibor College for Advanced Studies (Cross-sectional econometrics, Time series econometrics) • Corvinus University of Budapest, Heller Farkas College for Advanced Financial Studies (Financial econometrics, Time series econometrics) • Corvinus University of Budapest, Rajk László College for Advanced Studies (Financial econometrics I., Financial econometrics II.) • Corvinus University of Budapest, Empirical Finance Research Program (Basics of econometrics, Advanced econometrics)
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
THESIS ADVISING ACTIVITIES	<ul style="list-style-type: none"> • <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 • <i>Students' Scientific Association</i>: Corvinus University of Budapest: 7 papers (3 university 1th places, 3 university 2nd places, 1 university 3rd place, 2 national 1th places, 1 national 2nd places, 1 national special prize)
REVIEWING ACTIVITIES	<ul style="list-style-type: none"> • <i>University diploma</i>: Budapest University of Technology and Economics, Faculty of Electrical Engineering and Informatics; Óbuda University, John von Neumann Faculty of Informatics • <i>Students' Scientific Association</i>: Budapest University of Technology and Economics, Faculty of Electrical Engineering and Informatics; Óbuda University, John von Neumann Faculty of Informatics; national round • <i>Conference</i>: CINTI, ICCO, IFAC, INES, NK, SACI, SAMI, SISY, SMC • <i>Journal</i>: Acta Physiologica Hungarica (Akadémiai Kiadó), Biomedical Signal Processing and Control (Elsevier), BMC Medicine (Springer), BMC Public Health (Springer), BMJ Open (BMJ), Computer Methods and Programs in Biomedicine (Elsevier), Discover Social Science and Health (Springer), Epidemiologic Methods (De Gruyter), European Journal of Epidemiology (Springer), F1000Research (F1000), Journal of Biomedical and Health Informatics (IEEE), Journal of Epidemiology and Community Health (BMJ Group), Journal of Pharmaceutical Health Services Research (Wiley), Heliyon (Cell Press), Lege Artis Medicinae (Litteratura Medica Kiadó), Mathematical Biosciences and Engineering (Arizona State University), PLOS One (PLOS), Scientific Reports (Nature), Systems, Man and Cybernetics (IEEE), Therapeutic Advances in Gastroenterology (SAGE)

PARTICIPATION IN
DOCTORAL
PROCEDURES

- *Reviewer*: Budapest University of Technology and Economics, Doctoral School of Electrical Engineering; Eötvös Loránd University, Doctoral School of Mathematics; Óbuda University, Doctoral School of Applied Informatics and Applied Mathematics
- *Member of the comprehensive examination committee*: Semmelweis University, Doctoral School of Clinical Medicine
- *President of the committee*: Corvinus University of Budapest, Doctoral School of Economics, Business and Informatics

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

Editorial Board of Orvosi Hetilap

- Markusovszky Lajos Award, 2021 ("for his publication in Orvosi Hetilap that was deemed to be amongst the best in 2020")

Scientific Council of the Óbuda University

- Researcher of the Year Award, 2021 („in recognition of his research results and publication activity")

Óbuda University

- Commendation of the Rector, 2020 („for outstanding work in education at the Óbuda University")

Óbuda University

- Commendation of the Dean, 2019 („for his high quality, successful activity and achievements for the Faculty as an employee of the John von Neumann Faculty of Informatics of 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 19th 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): 1th place, 2010

Conference of the Students' Scientific Association

- National 1th place (2011, Economics Section)
- University 1th place (2009, Corvinus University of Budapest, Statistics and Econometrics Section)
- University 2nd 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 1th place, 2003
- „*Nyelvünkben élünk*” *Hungarian communication competition*: national 1th place, 1999
- *Bod Péter Library Science Competition*: national 3rd 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

Hiking, long-distance running, submarine warfare.