

Emre Tepe, Ph.D.

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Education

Ph.D.	2016, City and Regional Planning, The Ohio State University, Columbus, USA
M.Sc.	2013, City and Regional Planning, The Ohio State University, Columbus, USA
M.Sc.	2010, Urban Planning, Istanbul Technical University, Istanbul, TURKEY
B.Sc.	2007, Urban & Regional Planning, Istanbul Technical University, Istanbul, TURKEY

Experience

Aug. 2019 –	Assistant Professor, University of Florida
2017 – 2019	Assistant Professor, Gebze Technical University (Kocaeli/Turkey)
2017 – 2019	Consultant for metropolitan master planning, Istanbul Metropolitan Municipality
2017	Adjunct Faculty, Kadir Has University (Istanbul/Turkey)
2016 – 2017	Adjunct Faculty, Cankaya University (Ankara/Turkey)
2016	Instructor, The Ohio State University
2013 – 2015	Graduate Teaching Associate, The Ohio State University
2013	Graduate Research Associate, The Ohio State University
2009 – 2011	Chief planning officer, Tuzla Municipality (Istanbul/Turkey)
2008 – 2009	City planner, Tuzla Municipality (Istanbul/Turkey)
2009 – 2011	Local Expert and Urban Planning Task Force member, NALAS (Skopje/Macedonia)
2007	Urban Planner, Metropol Kentsel Tasarim (Istanbul/Turkey)

Research and Teaching Fields

Primary	Spatial Econometrics, Urban Simulation, Spatial Analysis and Machine Learning
Secondary	Quantitative Methods, Optimization, Big Data, Urban Economics, and Software Development

Awards & Fellowships

2017	Patricia Burgess Award for the Best Dissertation
2011 – 2013	Fulbright Ph.D. Fellowship
2011 – 2013	The Ohio State University Tuition and Fee Awards
2009	Honorable Mention in the Urla-Cesme-Karaburun Peninsula National Concept/Idea Competition (award: 10,000TL) <i>group members; Rivka Geron Schild (team representative), Mustafa Batu Kepekcioglu, Azime Tezer, Ilke Aksehirli, Hakan Ozan Erzincanli, Emre Tepe and Mete Basar Baypinar.</i>

Publications

- Tepe, E. & Guldmann, J.-M. (2018) Spatio-temporal multinomial autologistic modeling of land-use change: A parcel-level approach. *Environment and Planning B: Urban Analytics and City Science*. First Online Published on July 6, 2018.
- Tepe, E. & Guldmann, J.-M. (2017) Spatial and Temporal Modeling of Parcel-Level Land Development Dynamics. *Computers, Environments and Urban Systems* 64, 204–214.
- Berkoz, L. & Tepe, E. (2013). The Impacts of the Gated Residential Areas on the Urban Sprawl of Istanbul. *Academic Research International*, 4(3).
- Berkoz, L. & Tepe, E. (2011). The Intra-Metropolitan Location of Banks in Istanbul. Saarbrücken/Germany: VDM Verlag Dr. Muller Aktiengesellschaft & Co. KG Press.

Publications (under preparation)

- Tepe, E. (Article) A Statistical Program for Spatio-Temporal Autologistic Regression.
- Tepe, E. (Article) Economic Impacts of the New Istanbul Airport at National and City levels.
- Tepe, E. (Article) Modeling of Industrial Developments in Istanbul.
- Tepe, E. & Guldmann, J.-M. (Article) A Hybrid Land-Use Change Model with Automated Land Partitioning and Consolidation.
- Tepe, E. & Kucukmehmetoglu, M. (Article) Consensus Building via Cooperative Game Theory in Urban Development/Redevelopment.

Research Projects

A Hybrid Land-Use Change Model with Automated Land Partitioning and Consolidation

Duration	18 months (2018 – 2019)
Sponsor	Gebze Technical University
Role	Project coordinator

Economic impacts of large-scale projects in Istanbul and modeling industrial developments in Istanbul

Duration	1 year (2018)
Sponsor	Istanbul Metropolitan Municipality
Role	Project coordinator

Challenges of Regularization of Informal Settlements in South East Europe. Overview of the Relevant Urban Planning and Legalization Laws and Practice

Duration	1 year (2011)
Sponsor	Deutsche Gesellschaft für Internationale Zusammenarbeit
Role	Local expert

Legislation and Analysis of the Implementation of Spatial and Urban Planning in Albania, Kosovo, Macedonia, Moldova, Republic of Srpska and Turkey as compared to the case of Denmark

Duration	1 years (2010)
Sponsor	Deutsche Gesellschaft für Internationale Zusammenarbeit
Role	Local expert

Thesis

- 2016 *Statistical Modeling and Simulation of Land Development Dynamics*
City and Regional Planning, The Ohio State University
Dissertation Advisor: Jean-Michel Guldmann
- 2010 *Evaluation of New Large Scale Residential Settlements in Istanbul: the Cases of Buyukcekmece and Tuzla*
Urban Planning, Istanbul Technical University
Advisor: Lale Berkoz

Conference Proceedings

- Tepe, E. & Guldmann, J.-M., (2015). *Parcel-Level Land Development Dynamics: A Spatial and Temporal Autologistic Model*. 62nd Annual North American Meetings of the Regional Science Association International, Portland, OR, USA.
- Tepe, E. & Guldmann, J.-M., (2014). *Statistical Modeling and Simulation of Parcel-Level Land Development Dynamics*. ACSP 54th Annual Conference: Big Ideas, Global Impacts, Philadelphia, PA, USA.
- Berkoz, L. & Tepe, E. (2011). *The effects of the gated housing developments on the urban sprawl of Istanbul*. Paper presented at the Ecocity World Summit Conference, Montreal, Canada.
- Berkoz, L. & Tepe, E. (2009). *Evaluation of mass housing market in Istanbul*. Paper presented at the Joint International Real Estate Conference of the Asian Real Estate Society and the American Real Estate and Urban Economics Association, Los Angeles, CA, USA.
- Berkoz, L. & Tepe, E. (2009). *Accessibility of New Transportation Systems in Mass Housing Areas in Istanbul*. Paper presented at the 49th Annual Congress of the European Regional Science Association, Lodz, Poland. (Published in USB-O_I_7_307).
- Berkoz, L. & Tepe, E. (2009). *The intra-metropolitan location of banks in Istanbul*. Paper presented at the 49th Annual Congress of the European Regional Science Association, Lodz, Poland. (Published in USB-O_I_7_309).
- Tepe, E., Turan, G., Avcioglu, S., and Oktay, F., (2009). *The rise of migration related water problems in Istanbul: Tuzla district case study*. Paper presented at the 5th World Water Forum, Istanbul, Turkey.
- Berkoz, L. & Tepe, E. (2008). *Gated residential areas in Istanbul: environmental quality and satisfaction*. Paper presented at the 48th ERSA Congress, University of Liverpool, England. (Published in USB- 879).
- Berkoz, L. & Tepe, E. (2008). *Gated residential areas in Istanbul: private cars versus public transport systems*. Paper presented at the CIB W 084 “Building Comfortable and Livable Environments for All” Meeting, Georgia Institute of Technology, Atlanta, GA, USA. (Published in CD-Rom pp.214-220).

Developed application

NPU – Population Projection Application (written in Python) estimates future population based on historical trends using mathematical population projection methods. The standalone application can be run on Windows. The application link is provided below:
https://www.dropbox.com/sh/0ewxsg8f4jip6kz/AAC_9sDCyg_ZpsMq2w63ldXDa?dl=0

Developed Statistical Program

STARM - The statistical program (written in Python) estimates Monte Carlo Maximum Likelihood parameters of binary and multinomial spatio-temporal regression models which incorporating space and time and their interactions. It collects Monte Carlo samples by using Gibbs sampler algorithm. The software includes several advanced features to run large dataset, such as; storing matrices in sparse matrix form, allowing parallel processing in a cluster by using Apache Spark environment, and implementing Hashing algorithm to reduce computation time for identifying neighborhoods of spatial objects. *This program will be available in R platform in soon.*

Teaching Experience

Year	Course name	University
2020 – cont.	Urban Spatial Analysis**	Florida
2019 – cont.	Quantitative Data Analysis for Planners**	Florida
2019	Statistics II. (<i>in Turkish</i>)*	Gebze
2018	Statistics I. (<i>in Turkish</i>)*	Gebze
2018	Architectural Presentation Techniques (<i>in Turkish</i>)*	Gebze
2018	Applied Regression Analysis**	Gebze
2018 – 2019	Economy and Urban Modeling (<i>in Turkish</i>)**	Gebze
2018 – 2019	Urban Geography (<i>in Turkish</i>)*	Gebze
2017	Real Estate Development (<i>in Turkish</i>)*	Kadir Has
2017	The Economics of Urban Planning*	Cankaya
2017	Decision-making Process in Housing Reinvestment*	Cankaya
2017	Planning Studio II.*	Cankaya
2016	Application of Quantitative Methods in Urban Planning*	Cankaya
2016	Fundamentals of Housing*	Cankaya
2016	Urban Regeneration Process*	Cankaya
2016	Planning Studio I.*	Cankaya
2016	Introduction to City and Regional Planning	Ohio State
2014 – 2015	Resiliency Planning (<i>teaching associate for Kimberly Burton</i>)*	Ohio State
2013 – 2015	Site Planning and Development (<i>teaching associate for Jason Sudy</i>)**	Ohio State
2013 – 2014	Statistics review for graduate students in John Glenn School Boot Camp**	Ohio State
2013	Professional Planning Skills Development (<i>teaching associate for Kyle Ezell</i>)*	Ohio State

Note: ** graduate level course, * undergraduate level course

Research & Travel Grants

2018 – 2019	Gebze Technical University, Scientific Researches Support Program Research Grant (7,500 TL)
2009 – 2011	Istanbul Technical University, Scientific Researches Support Program Research Grant (5,000 TL)
2015	Travel grant (\$1000) from OSU Center for Urban and Regional Analysis
2014	Travel grant (\$200) from OSU City and Regional Planning
2009	Travel grants (1200 TL) from Istanbul Technical University
2008	Travel grants (1500 TL) from Istanbul Technical University

Computer Skills

GIS programs	: Esri ArcMap, ArcGIS Pro and QGIS
CAD programs	: AutoCAD, AutoCAD Civil 3D and NetCAD
Statistical programs	: R, SAS, Stata, SPSS and MiniTab
Technical computing	: Matlab, GAMS, Vensim and PCSWMM
Applications	: LaTeX, Photoshop, Illustrator, Microsoft Office and Open Office programs, Apache Spark
Programming Language	: Python
Operating systems	: Microsoft Windows, Linux (Ubuntu) and MacOS

Training and Certificate

Teaching Practicum	: Spring term of 2013 under supervision of Kyle Ezell
Mock Teaching Test	: Successfully passed on April 24th, 2013

List of journals for which I act as reviewer

- Computers, Environment and Urban Systems (Elsevier)
- Remote Sensing (MDPI)
- Forests (MDPI)
- Sustainability (MDPI)
- A|Z ITU Journal of the Faculty of Architecture
- Entropy (MDPI)
- Urban Science (MDPI)

Professional Affiliation

The Chamber of City Planners in Turkey (member since 2007)

Workshop

November 2013	: ACSP-The Job Market Workshop, The Ohio State University
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Personal

English (Fluent)
Turkish (Native)
German (Basic)