

EMIN DOKUMACI

CURRICULUM VITAE

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Education

Ph.D. Economics, University of Wisconsin-Madison, 2007
M.S. Economics, University of Wisconsin-Madison, 2003
B.A. Economics, Koç University, Istanbul, 2001
B.S. Physics, Koç University, Istanbul, 2001

Current Appointment

Assistant Scientist (Economist), University of Wisconsin-Madison, Wisconsin Center for Education Research,
Value Added Research Center, 2007-present.

Research Fields

Microeconomics, Game Theory, Economics of Education, Industrial Organization

Teaching Fields

Microeconomics, Game Theory, Industrial Organization, Statistics, Econometrics

Dissertation

Title: “Evolutionary Game Dynamics: Theory, Applications, and Software”

Committee: William H. Sandholm, Larry Samuelson, Marzena J. Rostek, Steven Durlauf, James Montgomery

Fellowships, Scholarships and Honors

Mr. and Mrs. Harry A. Bullis Scholarship, University of Wisconsin-Madison, Spring 2002
Walter Morton Memorial Scholarship, University of Wisconsin-Madison, Fall 2001
Vehbi Koç Fellowship for full tuition and stipend, Department of Physics, Koç University, 1995-2001
Dean’s Honor Roll, Koç University, 1998-2001
Vehbi Koç Scholarship, Koç University, Fall 1997

Publications

“The Projection Dynamic and the Replicator Dynamic” (with W.H. Sandholm and R. Lahkar). *Games and Economic Behavior* 64 (2008), 666–683.

“Large Deviations and Multinomial Probit Choice” (with William H. Sandholm). *Journal of Economic Theory* 146 (2011), 2151-2158.

Working Papers

“Schelling Redux: An Evolutionary Dynamic Model of Residential Segregation,” with W.H. Sandholm, 06/07

Works in Progress (on Economics of Education)

“A Differential Effects Value-Added Model with Multivariate Shrinkage,” with Robert H. Meyer
“Mean and Variance Value-Added Indicators with Multilevel Shrinkage: Application to a Multi-District Statewide Value-Added System,” with Robert H. Meyer, 03/09

Works in Progress (on Microeconomic Theory)

“Robustness of Bad Reputation”
“An Evolutionary Dynamic Model of Segregation and Inequality”
“The Quantile Best Response Dynamic”

Value-Added Research Projects

Teacher Effectiveness Initiative
School Quality in Public and Private Schools in Wisconsin
Value Added and Growth Model Demonstration Project
Milwaukee Classroom Value-Added Initiative

Completed Value-Added Research Projects

An Integrated Qualitative and Quantitative Evaluation of the SAGE Program
Value Added and Growth Model Demonstration Project

Software

Dynamo: Phase Diagrams for Evolutionary Dynamics, with W.H. Sandholm
A suite of easy-to-use computer programs for generating phase diagrams, vector fields, and other graphics related to evolutionary dynamics from game theory.

University Seminars

- “*Schelling Redux: An Evolutionary Dynamic Model of Residential Segregation*”
Texas A&M University, University of Kentucky, University of Wisconsin-Madison
- “*Stochastic Evolution with Perturbed Payoffs and Rapid Play*”
University of Wisconsin-Madison
- “*Robustness of Bad Reputation*”
University of Wisconsin-Madison

Conference Presentations

2011: The 36th Annual Conference of the Association for Education Finance and Policy
2009: The 20th Stony Brook International Game Theory Conference
2008: Games 2008, Third World Congress of the Game Theory Society, Northwestern University
SED 2008, 5th Conference on Economic Design, University of Michigan

Conferences Attended

National Conference on Value Added Modeling, 2008
IRP Applied Microeconometrics Workshop taught by Guido Imbens & Jeffrey Woolridge, 2008

Teaching Experience

University of Wisconsin-Madison, Teaching Assistant

Microeconomic Theory II (graduate), Spring 2005, Prof. Larry Samuelson and Prof. William H. Sandholm
Microeconomic Theory I (graduate), Fall 2004, Prof. William Brock
Economic Statistics and Econometrics II (graduate), Spring 2004, Prof. Bruce Hansen
Economic Statistics and Econometrics I (graduate), Fall 2003, Prof. Bruce Hansen
Probability and Statistics (undergraduate), Fall 2002, Prof. William H. Sandholm

Koç University, Istanbul, Teaching Assistant

Intermediate Microeconomics (undergraduate), Fall 2000, Prof. Tayfun Sönmez
Linear Algebra (undergraduate), Fall 1999, Prof. Attila Aşkar

Work Experience

Project Assistant (PA) for Prof. William H. Sandholm, Department of Economics, UW-Madison, 2001-2007
PA for Prof. Robert H. Meyer, Wisconsin Center for Education Research, UW-Madison, 2006
PA for Prof. Larry Samuelson, Department of Economics, UW-Madison, Summer 2005
PA for Prof. Attila Aşkar, Department of Mathematics, Koç University, 2000-2001
Mentor to Undergrads, Mentorship Program, Koç University, 1998-2001
Part-time Student Worker, Center of Information and Technology, Koç University, 1995-2001
Intern, R&D Department at Kent Investment, Istanbul, Turkey, Summer 1999

Refereeing: *Games and Economic Behavior, Eastern Economic Journal, Journal of Economic Behavior and Organization, Mathematical Social Sciences, The Economics Bulletin, Theoretical Economics*

Other Service: Recruiting Committee (2009-2011)

Memberships: AEA, Econometric Society, Game Theory Society, Society for Economic Design

Computer Skills: Mathematica, SAS, Fortran, Gauss, Stata, SPSS

Languages: Turkish (native), English (fluent), German (beginner)

References

William H. Sandholm

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Robert H. Meyer

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