

CURRICULUM VITAE

PERSONAL DATA

Female, U.S. permanent resident

EDUCATION

Ph. D. Economics - University of Wisconsin-Madison 2003
M. S. Economics – University of Wisconsin-Madison 2000
B.A. Economics - Bilkent University 1998

EMPLOYMENT HISTORY

9/2003- Assistant Professor,
University of Washington, Departments of Economics and Statistics
9/2003- Core Faculty Member,
University of Washington, Center for Statistics and the Social Sciences
05/2000-08/2000 Project Assistant,
University of Wisconsin-Madison, Department of Economics
02/1999-02/2002 Teaching Assistant,
University of Wisconsin-Madison, Department of Economics
09/1996-06/1997 Instructor,
Bilkent University Community Services Program

RESEARCH

Ph.D. Dissertation

“Essays on Social Interactions and Evolution in Economics”, 5/2003, University of Wisconsin-Madison. Dissertation Committee: Steven N. Durlauf (Chair), William A. Brock and Larry Samuelson.

Current Research Interests

Learning in games, Evolutionary computation, Optimal dynamic contracting, Economic growth, trade and environment, Social interaction effects, Modeling and Estimating default/failure, Bayesian inference.

Articles In Refereed Journals

- Alemdar N. M. and S. Sirakaya, “On-line Computation of Stackelberg Equilibria with Synchronous Parallel Genetic Algorithms,” *Journal of Economic Dynamics and Control*, 27(8), 1503-1515 (2003).
- S. Sirakaya and N. M. Alemdar, “Genetic Neural Networks to Approximate Feedback Nash Equilibria in Dynamic Games,” *Computers and Mathematics with Applications*, 46/10-11, 1493-1509 (2003).

- Alemdar N. M., S. Sirakaya and Farhad Hüsseinov, “Optimal Time Aggregation of Infinite Horizon Control Problems”. *Journal of Economic Dynamics and Control*, 30 (4): 569-593 (2006).
- Sirakaya, S., S. Turnovsky and N. M. Alemdar, “Feedback Approximation of the Stochastic Growth Model by Genetic Neural Networks”. *Computational Economics*, 27, 185-206 (2006).
- S. Sirakaya, “Recidivism and Social Interactions” *Journal of the American Statistical Association (Applications and Case Studies)*, Vol.101, Iss. 475; pg. 863 (2006).
- Sirakaya, S., S. Turnovsky and N. M. Alemdar “Trade, Growth and Environmental Quality”, (Forthcoming in the *Review of International Economics*).

Book Chapters

- Alemdar, N. M., S. Sirakaya, and S. Turnovsky, “Foreign Lending under Limited Enforcement”, in Yin-Wong Cheung and Kar-yiu Wong (eds.), *China and Asia: Economic and Financial Interactions*, Routledge.

Work in Progress

- Jeon, S. and S. Sirakaya, “A latent transition analysis of childhood overweight”.
- S. Sirakaya, “Social Interactions and Recidivism of Drug Offenders”.
- Sirakaya, S and N. M. Alemdar, “Endogenous Time Preference, Stages in the Balance of Payments and Optimal Foreign Borrowing”.
- Park, Y., Choi, B., Choi, J. W. and S. Sirakaya, “A Dynamic Hierarchical Bayesian Model for the Probability of Default”.

Manuscripts

- S. Sirakaya, “Learning in the Infinitely Repeated Prisoner's Dilemma Played by Finite Automata”.

Presentations

- June 2008: “A latent transition analysis of childhood overweight” (Presented by S. Jeon in Western North American Region of International Biometric Society Annual Meeting.)
- January 2008: “Social Interactions and Recidivism of Drug Offenders” (Department of Industrial Engineering, University of Washington).
- December 2007: “Social Interactions and Recidivism of Drug Offenders” (Center for Statistics and the Social Sciences, University of Washington).
- October 2007: “Social Interactions and Recidivism of Drug Offenders” (Department of Sociology, University of Washington).
- July 2006: “Economic Growth, Trade, and Environmental Quality in a Two-country World Economy” (Presented by S. Turnovsky in Public Economic Theory conference, Hanoi.).
- July 2006: “Social Interactions and Recidivism of Drug Offenders” (Empirics of Social Interactions - President-Elect Featured Session, Western Economic Association, 81st Annual Conference, San Diego, CA.)
- March 2006: “Recidivism and Social Interactions” (Invited Speaker. The International Biometric Society/Eastern North American Region (ENAR) with Participating Societies, IMS and Sections of ASA, 2006 Spring Meetings, Tampa Florida.)

- February 2006: “Economic Growth, Trade, and Environmental Quality in a Two-country World Economy” (Annual Meeting of the MacArthur Network on Inequality and Social Interactions, Stanford Univ.)
- October 2005: “Recidivism and Social Interactions” (22nd Canadian Econometrics Study Group Conference, Vancouver, BC, Canada)
- January 2005: “Economic Growth, Trade, and Environmental Quality in a Two-country World Economy” (Bilkent University).
- January 2005: “Economic Growth, Trade, and Environmental Quality in a Two-country World Economy” (American Economic Association Session on Trade and Development).
- November 2004: “Game Theory: A Tutorial for Social Scientists” (Center for Statistics and Social Sciences, Univ. of Washington)
- October 2004: “Recidivism and Social Interactions” (Annual Meeting of the MacArthur Network on Inequality and Social Interactions, Stanford Univ.)
- January & February 2003: “Recidivism and Social Interactions” (Univ. of Miami, Penn State Univ., Vanderbilt Univ., Univ. of Washington, Purdue Univ., Koc Univ. and Sabanci Univ.).
- October 2002: “Recidivism and Social Interactions” (Univ. of Wisconsin-Madison).
- July 2002: “Neural Network Training with Genetic Algorithms: A Nash Equilibrium Approach” (Santa Fe Institute, New Mexico).
- April 2002: “Learning in the Infinitely Repeated Prisoner's Dilemma Played by Finite Automata” (Univ. of Wisconsin-Madison).
- December 2001: “Learning in the Infinitely Repeated Prisoner's Dilemma Played by Finite Automata” (Bilkent Univ. and Sabanci Univ.).

MEMBERSHIP

- Econometric Society
- American Economic Association
- Western Economic Association
- Turkish Economic Association

TEACHING

Graduate Courses

Econ 580 / Stat 481 / CSSS 594BA	Introduction to Mathematical Statistics
Econ 525 (formerly Econ 512)	Computational Economics
CSSS/Econ 568	Game Theory for Social Scientists

Undergraduate Courses

Stat / CSSS 321	Case-based Social Statistics I
Stat / CSSS 322	Case-based Social Statistics II

PROFESSIONAL SERVICE

- 2006-2007: Member of the recruitment committee, Economics Department, University of Washington.
- 2006-2007: Member of the admissions committee, Statistics Department, University of Washington.
- 2005-2009: Editor of the CSSS working paper series, CSSS, University of Washington.
- 2006-2009: M.S., Applied statistics exam committee member, Statistics Department, University of Washington.

- 2005-2006: Ph.D., Applied statistics examiner, Statistics Department, University of Washington.
- 2005-2006: Member of the development committee, Statistics Department, University of Washington.
- 2005-2006: Member of the graduate committee, Economics Department, University of Washington.
- 2005-2006: Member of the research committee, Economics Department, University of Washington.
- 2003-2009: Macroeconomics departmental seminar series co-coordinator, Economics Departments, University of Washington.
- 2003-2004: Departmental seminar series coordinator, Statistics Departments, University of Washington.
- 2003-2009: M.S., Applied statistics examiner, Statistics Department, University of Washington.
- 2009: Member of the pedagogy committee, Statistics Department, University of Washington.
- 2004-2005: Chair of the social events committee, Center for Statistics and the Social Sciences, University of Washington.
- 2004-2006: Editorial board member, International Journal of Applied Economics.
- Doctoral committee member of Ceyda Öner (Economics - completed), Scott Payseur (Economics - completed), Li-Chuan Tsai (Economics - completed), Jeffrey C Begun (Economics – completed), Peng Han (Business Administration - completed), Guoying Zhang (Information Systems and Operations Management - completed), Serpil Tekin (Economics), Murat Koyuncu (Economics), Lindy Helfman (Economics), Xianglong Kong (Finance), Ching-chieh Chang (Finance), Jared Stanfield (Finance) and Sergei Barna (Finance), and graduate school representative on the doctoral committees of Jeongwook Son (Built Environment), Yen-Sheng Chiang (Sociology - completed), Gerald Alexander Pagel (Mechanical Engineering - completed) and Yung-Wen Liu (Industrial Engineering - completed).
- Refereeing: Journal of Political Economy, Journal of Economic Dynamics and Control, Journal of the Franklin Institute, Applied Econometrics, Macroeconomic Dynamics, Computational Economics, Journal of Computational Statistics & Data Analysis, Cambridge University Press, MIT press, University of Washington Royalty Research Fund grants, University of Washington Economics Department honors theses competition judge.

ACHIEVEMENTS/SCHOLARSHIPS/GRANTS

- Center for Statistics and the Social Sciences Seed Grant (Joint with Katherine Stovel): “A Path Toward Fairness: The Consequences of Preferential Association on Behavior in the Ultimatum Game,” University of Washington, December 2007.
- Center for Statistics and the Social Sciences Seed Grant: “Social Interactions and Recidivism of Drug Offenders,” University of Washington, December 2006.
- Royalty Research Fund Grant (\$26,345): “Lending under Limited Enforcement,” University of Washington, 2006.
- Selected Arthur J. Gresh Faculty Development Fellow (\$10,000), Economics Department, University of Washington, June 2005.
- The Wisconsin Alumni Research Foundation Dissertation Fellowship, University of Wisconsin-Madison, 2002-2003 academic year.
- Selected Participant, Graduate Workshop in Computational Economics: Computational Modeling and Complexity, Santa Fe Institute, New Mexico, Summer 2002.
- John D. and Catherine T. MacArthur Foundation: Network on Social Interactions and Economic Inequality Dissertation Fellowship, University of Wisconsin-Madison, May 2000.
- Merit based scholarship, University of Wisconsin-Madison, Fall 1998.

- Graduated from the Advanced Track Program in economics among the top 5 graduating students, Department of Economics, Bilkent University, May 1998.
- Board of Trustees Fellowship, Bilkent University, 1994-1998.
- Dean's List, Bilkent University, 1994-1998.

COMPUTER SKILLS

- Proficient in programming techniques, programming languages (Basic, Pascal, Cobol, Fortran, C, S-Plus, R, Gauss, Matlab, Mathematica).
- Advanced knowledge of DOS, UNIX and Windows Operating Systems.
- Advanced knowledge of MS Office, Latex.

LANGUAGES English (Fluent), German (Beginner), Turkish (Native Speaker)

REFERENCES Available upon request.