

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

Social interaction effects, computational economics, optimal dynamic contracting, economic growth and environment

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*).

Manuscripts

- Sirakaya, S., S. Turnovsky and N. M. Alemdar, “Feedback Environmental Policies in a Two-country World Economy”. (Under revision for the *Journal of Environmental Economics and Management*).
- S. Sirakaya, “Learning in the Infinitely Repeated Prisoner's Dilemma Played by Finite Automata”.

Work in Progress

- 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”.
- Alemdar, N. M., S. Sirakaya, and S. Turnovsky, “Foreign Lending under Limited Enforcement” (formerly titled “Lending under Limited Enforcement”).

Presentations

- 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
- International Biometric Society
- Turkish Economic Association

TEACHING

Graduate Courses

Econ 580 / Stat 481 / CSSS 594BA	Introduction to Mathematical Statistics
Econ 525 (formerly Econ 512)	Computational Economics
CSSS 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.
- 2005-2008: Editor of the CSSS working paper series, CSSS, University of Washington.
- 2007: 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.
- 2003-2008: Departmental seminar series coordinator, Economics Departments, University of Washington.
- 2003-2004: Departmental seminar series coordinator, Statistics Departments, University of Washington.
- 2003-2005: M.S., Applied statistics examiner, 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), Scott Payseur (Economics), Li-Chuan Tsai (Economics), Jeffrey C Begun (Economics), Serpil Tekin (Economics), Murat Koyuncu (Economics), Peng Han (Business Administration), Guoying Zhang (Information Systems and Operations Management), Xianglong Kong (Finance), Ching-chieh Chang (Finance), Jared Stanfield (Finance) and Sergei Barna (Finance), and graduate school representative on the doctoral committees of Yen-Sheng Chiang (Sociology), Gerald Alexander Pagel (Mechanical Engineering) and Yung-Wen Liu (Industrial Engineering).
- Refereeing: Journal of Political Economy, Journal of the Franklin Institute, Applied Econometrics, Macroeconomic Dynamics, Computational Economics, Journal of Computational Statistics & Data Analysis, Cambridge University Press, MIT press.

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, 2007.
- Center for Statistics and the Social Sciences Seed Grant: “Social Interactions and Recidivism of Drug Offenders,” University of Washington, 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).
- Advanced knowledge of DOS, UNIX and Windows Operating Systems.
- Advanced knowledge of MS Office, Lotus123, Latex, Paint Shop Pro.

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

REFERENCES Available upon request.