

**SEYHAN ERDEN, Ph.D.**

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**Education:**

**Ph. D.** in Economics, University of Wisconsin, May 1993. Fields: Econometrics and International Economics.

**Dissertation:** Essays in Tests for Nonnested Hypotheses.

- “Nonnested Tests for Selecting a Weighted Least Squares Estimator.”
- “Tests for Nonnested Hypotheses of Expectation Formation.”
- “A Monte Carlo Study of Tests for Nonnested Models Estimated by Generalized Method of Moments.”

**M.A.** in Economics, University of Wisconsin, December 1988.

**M.B.A.** in Management Information Systems, New Hampshire College, January 1985.

**B.A.** in Economics, Bogazici University, Istanbul, Turkey, June 1984.

**Citizenship:** U.S.A and Turkiye

**Awards:**

**Columbia University Provost’s Funded Teaching and Learning Grant on Innovative Course Design, *An Online Platform for Econometrics: Visual Graphical Interactive Simulations***, fully funded, funding and additional in-kind support from Columbia Center for Teaching and Learning (CTL) for the 2023-2024 academic year, platform to be implemented starting Fall 2024 semester.

**Parker Prize** funded research assistant for Assessing Students’ Attitudes in Introduction to Econometrics Class Project, Alex Zhang, for Summer and Fall 2023

**PER** funded research assistant, Assessing Students’ Attitudes in MA Econometrics Project, Giorgi Bokhua, Summer 2023

**Graduate School Fellowship**, University of Wisconsin-Milwaukee, 1992-1993.

**Research Grant**, Center for Latin America, University of Wisconsin, 1988-1990.

**Activities:**

Elected member of the Lecturer Advisory Committee ([LAC](#)), Faculty of Arts & Sciences, Columbia University. Serving for a three-year term, September 1<sup>st</sup>, 2023 – 2026.

Prepared a workshop for Ph.D. students who are summer instructors in Summer 2023. This workshop is designed with the help of the Columbia Center of Teaching and Learning (CTL) graduate studies program Dr. Ian Althouse. May 11, 2023

Columbia University, Office of the Provost. Teaching Transformations: Faculty Reflections and Insights on Pandemic Practices: [Leverage educational technology to create engaging classroom experiences](#). Spring 2023

Inclusive Teaching course completed at edX, [certificate](#) with ColumbiaX, Fall 2022.

Columbia Center for Teaching and Learning (CTL) Workshop on Designing STEM Poll Questions that Go Beyond Recall, January 12<sup>th</sup>, 2023.

CTL Workshop on Navigating Hot Moments in Classroom Workshop, January 20<sup>th</sup>, 2023.

CTL Mentoring Workshops and the Forum on Mentoring, Fall 2022.

President, Turkish-American Business Forum 2009-2011 (elected twice)

**Publications:**

“Enhancing Learning Outcomes in Econometrics: A 12-Year Study.” Status: published September 8<sup>th</sup>, 2023. *Education Sciences*, Section: *Higher Education*. 2023, 13, 213 <https://www.mdpi.com/2227-7102/13/9/913>, [pdf](#)

“Comparative Analysis of Teaching Modalities and Tools in Introductory-Level Econometrics: Unveiling Profile Dependencies and Impact on Achievement Gaps.” *The Journal of Economics and Economic Education Research*, 24(4), 1-18, July 2023. [pdf](#)

“Assessing the Attitudes of Students Towards Econometrics and the Effect of Attitudes on Performance at an Ivy League College,” *International Review of Economics Education*, status: under peer review as of July 8<sup>th</sup>, 2023, status: required reviews completed as of October 18<sup>th</sup>, 2023, [pdf](#).

“Exploring the Relationship between Attitudes, Performance, and Teaching Methods in Master’s Level Econometrics Education.” coauthored with Adilet Akzholov, Journal: *Education Inquiry*, status: under review, submitted July 18<sup>th</sup>, 2023.

“A Narrative on Leveraging Educational Technology to Create Engaging Classroom Experiences.” Columbia University, Office of the Provost, Teaching Transformations Faculty Reflections and Insights on Pandemic Practices. Available through this [link](#). Spring 2023.

- “Estimating the effect of free Shipping on Online Sales,” *Electronic Commerce Research (ELEC) Springer Journals*, co-authored with Taner Bilgic, revision required for publication on September 27<sup>th</sup>, 2023.
- “Test for Nonnested Hypotheses of Expectation Formation,” co-authored with Matthew Higgins. *Journal of Quantitative Economics*, revised and resubmitted Dec 1997.
- “Nonnested Tests for Selecting a Weighted Least Squares Estimator,” *Communications in Statistic - Simulation and Computation*, Volume 24, Issue 3, 1995.
- “A Monte Carlo Study of Tests for Nonnested Models Estimated by Generalized Method of Moments,” *Communications in Statistic - Simulation and Computation*, Volume 24, Issue 3, 1995.

### **Presentations:**

- “Evaluating the Evaluations: An In-Depth Examination of Course Evaluations Composition in Higher Education,” submitted to present at AEA Conference on Teaching and Research in Economic Education (CTREE) Atlanta, GA, May 29 – 31, 2024.
- “Comparing the Effects of Tools Used in Teaching Econometrics: Evidence with Twelve Years of Data,” presented at ITLC Lilly Conferences, Evidence-based Teaching and Learning, San Diego, CA, January 5-7, 2023.
- “Innovative New Course Design: A Visual, Interactive and Graphical Platform, named MetricsMentor to Enhance Learning Outcomes in Econometrics .” Current Issues in Applied Microeconomics (Seminar 815, aka Women’s Applied Micro Seminar). Columbia University. October 24<sup>th</sup>, 2023. [Link](#).
- “Enhancing Learning Outcomes in Econometrics: A 12-Year Study” MIM Conference 2023, “Contributions of Turkish American Scientists, Engineers, and Architects to the Science & Economy,” Columbia University, School of Engineering and Applied Sciences. October 21, 2023. [Link](#).
- “Assessing the Attitudes of Students Towards Econometrics and the Effect of Attitudes on Performance at an Ivy League College” NBER Conferences, Economics of Education Program Meeting, Washington, DC, May 4-5, 2023.
- “Free Shipping and its Casual Effect on Online Sales,” to be presented at Euro 2019 Conference, 30<sup>th</sup> Annual European Operational Research Societies in Dublin, Ireland June, 23<sup>rd</sup>-26<sup>th</sup> 2019.
- “Nonnested Tests for Selecting a Weighted Least Squares Estimator,” Econometric Society European Meeting, Bogazici University, Istanbul, August 1998.
- “Tests for Nonnested Hypotheses of Expectation Formation,” Eastern Economic Association, 22nd Annual Convention, March 1996.

“A Regional Forecasting Model for the State of Wisconsin”, Mid-continent Regional Science Association 25th Annual Conference, Chicago, June 1994.

“Nonnested Tests for Selecting a Weighted Least Squares Estimator,” Seminar Series, University of Wisconsin-Milwaukee, March 1994.

### **Textbook and Paper Reviews:**

Reviewer for papers submitted to *ITLC Lilly Conferences – Evidence-Based Teaching & Learning*. 2022 – 2024. [Link](#)

*Real Stats: Econometrics for Economics, Policy, Politics, and Law*, by Michael A. Bailey, Oxford University Press, draft in Feb 2015, Chapters 5-16, written review in April 2015.

*Real Stats: Econometrics for Economics, Policy, Politics, and Law*, Oxford University Press, Oct 2014 draft, Chapters 9-13, written review in Nov. 2014.

*Econometrics: A Modern Introduction*, by Michael Murray, 1<sup>st</sup> edition, Chapters 9-14, written review in 2013.

*Introduction to Econometrics*, by James Stock and Mark Watson, Addison Wesley, 1<sup>st</sup> edition entire book review session at Eastern Econometrics Association Meetings in New York, Jan 2002.

### **Discussant:**

ITLC Lilly Conferences, Evidence-based Teaching and Learning, San Diego, CA, January 5-7, 2023.

Eastern Economic Association Conference in Washington D.C., Feb. 2004

**Panelist:** Panelist at the Event on Women in Economics Event organized by MESA (Masters of Economics Student Association) on April 6th, 2023.

Women in Economics Event organized by MESA (Masters of Economics Student Association) on September 22, 2019

### **Professional Experience:**

Lecturer in Discipline, Columbia University, Department of Economics

1. Econometrics I (GR5411) Master's Program in Economics Department. Every fall semester from Fall 2019 to Fall 2023
2. Macroeconometrics (MPA in Economic Policy program at SIPA, Columbia University) Every spring semester from Spring 2020 to Spring 2023

3. Advanced Econometrics (GR5415) in MA in Economics program, Summer 2016, Summer 2017, Fall 2018, co-taught with Joshua Angrist of MIT.
4. Advanced Econometrics (GU4412) Fall 2017, Fall 2018
5. Econometrics of Time Series and Forecasting (W4413), in the Economics Department. Spring 2014, Spring 2015, Spring 2016, Spring 2021.
6. Seminar in Econometrics (GU4918) (Topics: Macro/Finance) in Economics Department. Spring 2014, Spring 2015, Spring 2017, Spring 2018, Spring 2019, Spring 2020, Spring 2021, Spring 2022, Spring 2023.
7. Introductory to Econometrics (UN3412) in the Economics Department, one, two, or three sections every Fall, Spring, and Summer semesters from Spring 2010 to Fall 2023
8. Intermediate Microeconomics (W3211), Fall 2011, Spring 2013, Summers 2012 and 2013

Adjunct Associate Professor, Columbia University, Department of Economics,

9. Introduction to Econometrics, Fall 2010

Lecturer, Columbia University, Department of Economics,

10. Intermediate Microeconomics, Summer 2011

Adjunct Associate Professor, New York University, Department of Economics,  
Master Program

11. Mathematics for Economics (Graduate Level), Fall 2003 – Fall 2018 (every Fall semester)
12. Applied Time Series Econometrics (Graduate Level) Spring 2003 – Spring 2019 (every Spring semester)

Adjunct Professor, City University of New York, Bert W. Wasserman Department of Economics and Finance, Zicklin School of Business

13. Advanced Microeconomics, Spring 2010, Summer 2011
14. Statistical Analysis for Economics and Finance, Fall 2010, Spring 2011
15. Microeconomics for Master's degree (ECO 9730) Spring 2012
16. Macroeconomics 2012

Adjunct Associate Professor, New York University, Department of Economics

17. Undergraduate Statistics Fall 2005 - Fall 2006
18. Undergraduate Econometrics Fall 2004 - Fall 2006

Adjunct Professor, New York University, Department of Economics.

19. Introductory Econometrics, Fall 2002 and 2003
20. Graduate level Math for Economics, Fall 2002 and 2003
21. Graduate-level Applied Econometrics (Time Series Analysis)
22. Statistics, Spring 2002
23. Graduate level International Economics, Fall 2001

Adjunct Professor, City University of New York, Department of Economics

24. Statistics, Fall 2004 – Fall 2009
25. Econometrics, Fall 2004 – Fall 2009

Associate Lecturer, Northeastern University, Department of Economics.

26. **Ph.D. level** Time Series Analysis, Spring 1997 (text: Hamilton Time Series Analysis and Enders, W., Applied Econometric Time Series, John Wiley & Sons, Inc.)
27. **Ph.D. level** Cross Section Analysis, Fall 1996 (text: Griffiths, W.E., Hill, R.C., Judge, G.G. Learning and Practicing Econometrics, John Wiley & Sons, Inc.)
28. Graduate level Econometrics Spring 1997, Spring 1998, Spring 2000. (text: Greene, W.H. Econometric Analysis, Macmillan Publishing Company, Prentice Hall).
29. Problems in Research Methods, Spring 2000.
30. Health and Medical Economics, Fall 1998, Spring 2000 - Spring 2001
31. Principles of Macroeconomics, Fall 1996 - Fall 2000
32. Principles of Microeconomics, Fall 1996 - Spring 2001
33. Economic Development, Spring 1996.
34. Statistics, Winter 1996.
35. International Trade, Winter 1996.

Senior Lecturer, Suffolk University, School of Management and Economics Department.

36. Management Science, Fall 1997.
37. Graduate level Economic Integration, Spring 1996.
38. Statistics, Fall and Spring semesters 1995-96.

Associate Lecturer, University of Wisconsin-Milwaukee, Department of Economics.

39. **Ph.D. level** Econometric Methods I (text: Theil), Fall semesters 1994- 95.
40. Economic Statistics, Spring semester 1993-94 and Summer semester 1994.
41. Upper-Level International Economics. Fall semester 1993-94.

Instructor, University of Wisconsin-Milwaukee, Department of Economics.

42. Introductory Statistics, Fall and Spring 1989 – 1992
43. Microeconomics, Spring 1989.
44. Macroeconomics, Fall and Spring 1988-89.

Econometric Researcher

45. Econometric research on Health Economics, writing grant proposals for government funding (Medical College of Wisconsin, Department of Community Medicine), October 1994 - July 1995.
46. We have built a regional forecasting model for the State of Wisconsin (University of Wisconsin - Milwaukee, Social Sciences Research Facility) December 1993 - September 1994.

Research Assistant (University of Wisconsin-Milwaukee, Center for Latin America) Research on Fiscal Reform, International Economics and Labor Market in Mexico, Fall and Spring 1988-90.

Micro Computer Analyst, Portas Inc., IBM representative in Istanbul, Turkey. Consulting on software problems of IBM clients. February 1985 - June 1986.

## Working Papers:

- “Assessing Simultaneous Effects of Student Performance and Instructor Evaluations in Economics: An Empirical Study,” co-authored with Waseem Noor, working paper 2023-24.
- “The Relationship between Students’ Attitudes and Performances in Econometrics” October, 2023 ISERP Working papers, Fall 2023, [pdf](#).
- “Adapting to Change: Transforming Econometrics Education Through Technology,” August 2023, [link](#)
- “Examining the Interplay Between Course Evaluations, Teachers Evaluations, and Students’ Academic Performances: A Panel Data Analysis” 2022-23
- “The Effects of Different Tools Used in Teaching Econometrics: Evidence with Twelve Years of Data,” 2022-23, ISERP Working papers, Summer 2023, [pdf](#).
- “Assessing the Attitudes of Students Towards Econometrics and the Effect of Attitudes on Performance at an Ivy League College,” co-authored with Andrew Loevinger, working paper 2022-23
- “Exploring the Relationship between Attitudes, Performance, and Teaching Methods in Master’s Level Econometrics Education.”, coauthored with Adilet Akzholov, 2022-23.
- “Effects of Capital Flight in Sub-Saharan African Countries” coauthored with Tamrat Gashaw, 2022-23.
- “Estimating the effect of free Shipping on Online Sales,” *Electronic Commerce Research (ELEC) Springer Journals*, co-authored with Taner Bilgic, 2022-23
- “Tests for Nonnested Hypotheses of Expectation Formation,” co-authored with Matthew Higgins and submitted to the *Journal of Quantitative Economics*, asked to be revised and resubmitted. 1995-1996
- “Nonnested Tests for Selecting a Weighted Least Squares Estimator,” May 1996, submitted to *Communications in Statistic - Simulation and Computation*, Volume 24, Issue 3, 1995.
- “Is Speculation in Foreign Exchange Market Destabilizing?” Department of Economics, Suffolk University. 1995
- “The Practice Location of Primary Care and Family Practice Physicians in Rural and Inner City Areas in Wisconsin: Are Family Practice Physicians Different?” Department of Community Medicine, Medical College of Wisconsin. 1995-97
- “A Regional Forecasting Model for the State of Wisconsin”, Social Science Research Facility, University of Wisconsin. 1994-95

“An Empirical Study of the Purchasing Power Parity Theory Using the Cointegration Method: A Case of U.S. and Turkey”, Department of Economics, University of Wisconsin. 1995

**Professional Affiliations:**

American Economic Association  
NBER Economics Education Program  
ITLC Lilly – Evidence-Based Teaching and Learning  
American Economic Association Committee on the Status of Women in Economic Profession (CSWEP).  
Econometrics Society.  
Eastern Economic Association.  
Midwest Econometrics Group.

**References:**

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