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EDUCATION

- 1990 PH.D. Economics, UNIVERSITY OF MASSACHUSETTS AT AMHERST
- 1985 B.A. Economics, UNIVERSITY OF MASSACHUSETTS AT AMHERST

EMPLOYMENT

- 2001- FEDERAL COMMUNICATIONS COMMISSION, WASHINGTON, D.C.
Senior Economist/Researcher.
- 1997- HARTWICK COLLEGE, ONEONTA, NEW YORK.
2001 Associate Professor (Tenured), Department of Economics.
- 1990- OHIO WESLEYAN UNIVERSITY, DELAWARE, OHIO.
1997 Assistant Professor (Tenured), Department of Economics.

SCHOLARLY ACTIVITY

- PEER-REVIEWED JOURNAL ARTICLES

- 2018 AN ECONOMIC “KESSLER SYNDROME”: A DYNAMIC MODEL OF EARTH ORBIT DEBRIS, *Economic Letters*, (with Nodir Adilov and Brendan Cunningham).
- 2015 AN ECONOMIC ANALYSIS OF EARTH ORBIT POLLUTION, *Environmental and Resource Economics*, (with Nodir Adilov and Brendan Cunningham).
- 2012 FROM SWITCHES TO PACKETS: THE NEW WORLD OF INTERCONNECTION, *Journal of Information Policy*, Volume 2 (with Brendan Cunningham).

- 2012 SMALLER PIE, LARGER SLICE: HOW BARGAINING POWER AFFECTS THE DECISION TO BUNDLE, *BE Journal of Economic Analysis and Policy*, Volume 12, Issue 1 (with Brendan Cunningham and Nodir Adilov).
- 2010 NETWORK GROWTH: THEORY AND EVIDENCE FROM THE MOBILE TELEPHONE INDUSTRY, *Information Economics and Policy*, March, pp. 91-102 (with Brendan Cunningham).
- 2006 HORIZONTAL MERGER: PIVOTAL BUYERS AND BARGAINING POWER, *Economics Letters*, 3, 307-311 (with Nodir Adilov).
- 2005 MARKET STRUCTURE, VIEWER WELFARE, AND ADVERTISING RATES, *Economics Letters*, 86, 331-337 (with Keith Brown).
- 2004 A THEORY OF BROADCAST MEDIA COMPETITION AND COMMERCIAL ADVERTISING, *Journal of Public Economic Theory*, 6, (4), pp. 557-575 (with Brendan Cunningham).
- 2004 BUNDLING IN CABLE TELEVISION: A PEDAGOGICAL NOTE WITH A POLICY OPTION, *International Journal of Media Management*, Volume 6, No. 3&4, pp. 162-167 (with Keith Brown).
- 2004 PEER-TO-PEER FILE SHARING COMMUNITIES, *Information Economics and Policy*, 16, pp. 197-213, (with Nodir Adilov and Brendan Cunningham).
- 2004 DIVERSITY IN BROADCAST TELEVISION: AN EMPIRICAL STUDY OF LOCAL BROADCAST NEWS IN THE UNITED STATES, *International Journal of Media Management*, Volume 6, No. 3&4, pp. 176-183, (with Brendan Cunningham).
- 2002 MARKET STRUCTURE IN THE MUSIC RECORDING INDUSTRY, *Historical Methods*, Volume 35, Number 3, Summer.
- 2002 PEER-TO-PEER FILE SHARING: THE CASE OF THE MUSIC RECORDING INDUSTRY, *Review of Industrial Organization*, Volume 20, 151-161.
- 1997 PRODUCT VARIETY AND MARKET STRUCTURE: A NEW MEASURE AND A SIMPLE TEST, *Journal of Economic Behavior and Organization*, Volume 32, 207-214.

- 1996 ENTROPY AND POPULAR CULTURE: PRODUCT DIVERSITY IN THE POPULAR MUSIC RECORDING INDUSTRY, *American Sociological Review*, Volume 61, 1, 171-174.
- 1994 NEW TECHNOLOGY AND MARKET STRUCTURE: EVIDENCE FROM THE MUSIC RECORDING INDUSTRY, *Journal of Cultural Economics*, Volume 18, 113-123.
- 1994 ENTRY BARRIERS, RELEASE BEHAVIOR, AND MULTI-PRODUCT FIRMS IN THE MUSIC RECORDING INDUSTRY, *Review of Industrial Organization*, Volume 9, 85-98.

- **BOOK CHAPTERS**

- 2014 *ECONOMICS OF PEER-TO-PEER DISTRIBUTION*, in the International Handbook on the Economics of Media, Steve Wildman and Robert Picard, editors (with Nodir Adilov and Brendan Cunningham).
- 2008 *THE MUSIC RECORDING INDUSTRY*, in The Structure of American Industry, James Brock, Editor, 12th edition.
- 2007 *POLICY MAKING AND POLICY TRADE-OFFS*, in The Economic Regulation of Broadcasting Markets, Paul Seabright and Juergen von Hagen, Editors, Cambridge University Press (with Keith Brown).
- 2006 *MEDIA DIVERSITY AND LOCALISM*, Philip Napoli, Editor, Erlbaum Associates Press.
- 2004 *THE MUSIC RECORDING INDUSTRY*, in The Structure of American Industry, James Brock, Editor, 11th edition.

- **INVITED PRESENTATIONS**

- 2015 AN ECONOMIC MODEL OF EARTH ORBIT DEBRIS, PERI Institute, University of Massachusetts, Amherst, MA.
- 2009 NETWORK GROWTH: THEORY AND EVIDENCE FROM THE MOBILE TELEPHONE INDUSTRY, Georgetown University/National Press Club, Washington DC.

- 2006 SCALE, SCOPE, AND MEDIA CROSS-OWNERSHIP IN THE PRODUCTION OF LOCAL NEWS, Fourth Workshop on Media Economics, George Washington University, Washington, DC.
- 2004 REGULATION OF MEDIA MARKETS, University of Toulouse, France, co-sponsored by IDEI, University of Toulouse, and the University of Bonn.
- 2004 POLICY-MAKING AND POLICY TRADE-OFFS, Econometric Society, Santiago, Chile.
- 2003 MEDIA DIVERSITY AND LOCALISM: MEANING, METRICS, AND THE PUBLIC INTEREST, Panel Discussion, Fordham University, New York City.
- 2003 A THEORY OF BROADCAST MEDIA COMPETITION AND COMMERCIAL ADVERTISING, Second Workshop on Media Economics, Bergen, Norway.
- 2001 COPYRIGHT LAW: CHANGING THE FACE OF THE INTERNET. Albany Law School, Albany, NY. Keynote Speaker.

- **WORKING PAPERS**

- 2017 LEFT FOR DEAD: ANTI-COMPETITIVE BEHAVIOR IN ORBITAL SPACE, *Working Paper*, Purdue University and Eastern Connecticut University.
- 2017 PLATFORM ECONOMICS: AN INTRODUCTION TO ON-LINE GAMING, *Working Paper*, Federal Communications Commission
- 2017 THE SCIENTIFIC VALUE OF ORBITAL SATELLITES, *Working Paper*, Federal Communications Commission
- 2017 DEBT, EQUITY, AND THE FIXED SATELLITE INDUSTRY, *Working Paper*, Federal Communications Commission.
- 2009 RULE OF LAW, REGULATION, AND GROWTH OF MOBILE TELECOMMUNICATIONS, *Working Paper*, Unites States Naval Academy and Michigan State University.

2006 POLITICAL REPRESENTATION, VOTER INFORMATION, AND GOVERNMENT
ALLOCATIONS: A THEORY OF OPTIMAL LOCALISM, *Working Paper*, Federal
Communications Commission.

REFEREE

American Economic Review, Journal of Economic Behavior and Organization,
Economic Inquiry, International Economic Journal, Journal of Management
Science, Review of Industrial Organization, Journal of Advertising, Social Science
Quarterly, Journal of Cultural Economics, Journal of Economic Education, Journal
of Media Economics, National Science Foundation.