



Scott Carr, PhD
Senior Managing Economist, LECG

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Summary

Dr. Scott Carr brings unique expertise, experience, and credentials to LECG's Antitrust & Competition practice. He holds a PhD in both business administration and in industrial engineering, he has published state-of-the-art research in prestigious academic journals, and he is an expert in numerous areas such as: competition economics, industrial organization; probability, statistics, stochastic processes; modeling and optimization, decision theory, simulation; options, derivatives, risk analysis and management; engineering, product design, project management, construction engineering and management; production and service systems, supply chains and distribution networks; information systems and technology; and business strategy, valuation, and pricing.

Prior to joining LECG, Dr. Carr was a professor at The UCLA Anderson School of Management in the area of decisions, operations, and technology management. As a professor, he taught a variety of courses to MBA and PhD students and to executives. Dr. Carr also performed and published research on industrial economics and marketing.

Expertise

- Competition economics, industrial organization
- Probability, statistics, stochastic processes
- Options, derivatives, risk analysis and management
- Engineering, product design, project management, construction engineering and management
- Optimization, modeling, decision theory, simulation
- Production and service systems, supply chains and distribution networks, information systems and technology
- Business strategy, valuation, pricing

Doctoral Degree

PhD, University of Michigan, Ann Arbor, Michigan, 1999
Business Administration and Engineering

- Doctorate jointly conferred by The Michigan Business School (Operations Management) and the College of Engineering (Industrial and Operations Engineering)

Other Degrees

MS Engineering, Industrial and Operations Engineering, University of Michigan, 1994
MS Engineering, Construction Management and Engineering (Civil and Environmental Engineering), University of Michigan, 1993
BS Engineering, Mechanical Engineering, University of Michigan, 1986

Faculty Experience

UCLA Anderson School of Management – Decisions, Operations, and Technology Management, 1999-2007

Recent Professional Activities – representative examples

- Economic modeling and analysis including:
 - Class-certification and merits stages of price-fixing litigation among chemical manufacturers
 - Alleged monopolization of industrial chemicals (case manager)
 - Merger simulation for medical device manufacturer
 - Analysis of stock options pricing for bankruptcy litigation in the electricity industry
 - Financial impact of automotive emissions control regulations for an association of automobile manufacturers
- Managed, advised, or performed strategic projects for firms/organizations including:
 - Large coal-mining firm
 - Leading defense contractor
 - Leading semiconductor supplier
 - Large manufacturer of optical and scientific devices
 - National chain of department stores
 - Los Angeles Community Redevelopment Agency
 - Mass-transit authority in a large metropolis
 - Large automotive supplier
 - Leading advertising agency
 - National chain of theme parks
- Speeches/presentations delivered regularly at academic conferences
- Principal investigator in a project and grant to improve small enterprises' access to business expansion capital
- Member of editorial board for *Decision Sciences Journal* and frequent reviewer for *Management Science*, *Operations Research*, and other academic journals

Professional Affiliations

- American Bar Association – Antitrust Law Section, Economics Committee, Intellectual Property Committee
- Institute for Operations Research and the Management Sciences (INFORMS) – Publications Committee
- Institute of Industrial Engineers
- LECG, Los Angeles (Affiliate) – Professional services for antitrust litigation and competition policy, 2005–2006

Graduate-Level Courses Taught at The UCLA Anderson School of Management

Competition and Industrial Organization [PhD] – Game theoretic models of inter-firm interaction. Classic and seminal oligopoly models. Advanced game theory. Models of strategic interaction within complex production networks. Antitrust. Analysis and proof techniques, 2006

Managerial Model Building [MBA] – Mathematical modeling, analysis, and optimization. Linear, non-linear, and integer programming/optimization. Monte-Carlo simulation. Forecasting methods. Project Management models and tools. Application of optimization models in business settings, 2005-2006

Simulation Theory and Applications [PhD] – Monte-Carlo, discrete event, and agent-based simulation for finance, marketing, and operations. The use of simulation in empirical research. Simulation of stochastic processes. Option valuation (both financial and real) using simulation. Applications (e.g., simulation of intellectual property piracy across the Internet), 2004-2006

Management in the Information Economy [MBA] – Internet and telecommunication technology. Internet business models and strategy. Economics of information products and processes, 2003

Fundamentals of Operations Management [MBA] – Analysis of business processes. Formulating and executing business strategy. Service and performance measurement and metrics. Managing risk, variability, and uncertainty. Management of supply chains and production networks, 1999-2003, 2006

Dynamic Programming and Sequential Optimization [PhD] – Dynamic programming, Markov chains and decision processes, solution and proof techniques, and structural results and proofs, 2000

Other Teaching

PhD Dissertation Committees (including Dissertation Advisor) – topic areas including: competition economics, operations management, information technology, international business, simulation

Executive Education at UCLA Anderson – Various topics in the following programs (1999 to Present):

- Managing the Information Resource
- Creating and Leading the Project-Centered Organization (faculty director),
- Head Start – Johnson & Johnson Management Fellows Program
- UCLA Strategic Leadership Institute
- California HealthCare Foundation's Health Care Leadership Program
- Johnson & Johnson Healthcare Leadership Program

University of Michigan, Ross School of Business [BBA] – Operations Management, 1997

University of Michigan, College of Engineering [BSE] – Computer Programming, 1995

Recent Research

Scott Carr and Uday Karmarkar, "Competition in Multi-Echelon Assembly Supply Chains," *Management Science*, vol. 51, January 2005, 45-59

Scott Carr, Uday Karmarkar, and Deming Zhou, "Competition in Multi-Echelon Distributive Supply Chains," under revision for *Manufacturing and Service Operations Management*, 2005

Dissertation Advisor for Ram Bala, PhD (faculty, Indian School of Business), Dissertation title: *Pricing and Contracting Strategies for Software Products and Services*, 2004

Ram Bala and Scott Carr, "Pricing of Software Services," under revision for *Management Science*, 2005

Ram Bala and Scott Carr, "Pricing and Market Segmentation for Software Upgrades," under revision for *Management Science*, 2004

Scott Carr, Izak Duenyas, William Lovejoy, "Modeling Demand and Capacity Uncertainty under Competition," Under revision for *Manufacturing and Service Operations Management*, 2003

Scott Carr and Reza Ahmadi, "Demand Uncertainty as a Driver of Gray Market Activity," under review by *European Journal of Operations Research*, 2005

Scott Carr, Online Auctions with Costly Bid Evaluation, *Management Science* (special issue on e-Business) vol. 49, November 2005, 1521-1528

Scott Carr, "Market Entry and Structure Under Uncertain and Disparate Market Forecasts," under revision for *Decision Sciences*, 2004

Scott Carr and William Lovejoy, "Choosing an Optimal Demand Portfolio for Capacitated Resources," *Management Science*, vol. 46, July 2000, 912-927

Scott Carr and Izak Duenyas, "Optimal Admission Control and Sequencing in a Make-to-Stock/Make-to-Order Production System," *Operations Research*, vol. 48, Sept.-Oct. 2000, 709-719

Scott Carr, *Essays on the Allocation of Scarce Capacity Among Multiple Market Segments*, PhD dissertation, published by UMI

Other Relevant Experience

Manufacturing – Libbey-Owens-Ford (1995–1998)

- Consulting and research related to contracting and demand management, information systems, data-mining, production planning and scheduling, demand forecasting, and materials management

Legal – Case management and expert-witness preparation (1995–1998)

- Researched case and administrative law on employers' and owners' safety responsibilities in multi-employer construction jobsites
- Developed case theories and strategies, wrote briefing materials, and engaged in trial preparation

Finance – Traded and managed portfolios of foreign exchange and Treasury bond options (1986–1991)

- Member of Chicago Board of Trade
- Member of Chicago Mercantile Exchange

Information Technology – Computer Associates, Chicago Illinois (1991–1992)

- Mainframe software systems (datacenter management, security, database management, finance and production applications)