

UNIVERSITY OF CHICAGO

DEPARTMENT OF ECONOMICS AND BOOTH SCHOOL OF BUSINESS

Business 33921/ Economics 401

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Chad Syverson

ADVANCED INDUSTRIAL ORGANIZATION I—READING LIST

GENERAL REFERENCE TEXTS:

Carlton, D. and J. Perloff, *Modern Industrial Organization*, (C-P) Scott, Foresman, 2nd edition, 1994.

Tirole, J., *The Theory of Industrial Organization*, M.I.T. Press, 1988.

1. Productivity, Industry Evolution, and Technical Change

C-P, Chapters 2 and 17.

Tirole, Chapter 10.

Baily, M., C. Hulten, and D. Campbell. "Productivity Dynamics in Manufacturing Plants." *Brookings Papers on Economic Activity: Microeconomics*, 1992, 187-249.

Bahk, B.-H. and M. Gort. "Decomposing Learning by Doing in New Plants." *Journal of Political Economy*, 101(4), 1993, 220-234.

Bartelsman, E. and M. Doms. "Understanding Productivity: Lessons from Longitudinal Microdata." *Journal of Economic Literature*, 38(3), 2000, 569-94.

Benkard, L. "Learning and Forgetting: The Dynamics of Aircraft Production." *American Economic Review*, 2000, 1034-1054.

Bertin, A., T. Bresnahan, and D. Raff. "Localized Competition and the Aggregation of Plant-Level Increasing Returns: Blast Furnaces, 1929-1935." *Journal of Political Economy*, 104(2), 1996, 241-66.

Bloom, N. and J. van Reenen. "Measuring and Explaining Management Practices Across Firms and Countries." *Quarterly Journal of Economics*, 122(4), 2007, 1351-1408.

Bloom, Nicholas, Benn Eifert, Aprajit Mahajan, David McKenzie, and John Roberts. 2010. "Does Management Matter? Evidence from India." NBER Working Paper 16658.

De Loecker, J. "Product Differentiation, Multi-Product Firms and Estimating the Impact of Trade Liberalization on Productivity." *Econometrica*, forthcoming.

Ericson, R. and A. Pakes. "Markov Perfect Industry Dynamics: A Framework for Empirical Work." *Review of Economic Studies*, 62(1), 1995, 53-82.

Foster, L., J. Haltiwanger, and C. Syverson. "Reallocation, Firm Turnover, and Efficiency: Selection on Productivity or Profitability?" *American Economic Review*, 98(1), 2008, 394-425.

Foster, L., J. Haltiwanger, and C. Syverson. "The Slow Growth of New Plants: Learning about Demand?" Working Paper, July 2009.

Hsieh, C. and P. Klenow. "Misallocation and Manufacturing TFP in China and India." *Quarterly Journal of Economics*, 124(4), Nov. 2009, 2009, 1403-48.

Holmes, T., D. Levine, and J. Schmitz, "Monopoly and the Incentive to Innovate When Adoption Involves Switchover Disruptions." NBER Working Paper 13864, 2008.

Hopenhayn, H. "Entry, Exit, and Firm Dynamics in Long Run Equilibrium." *Econometrica*, 60(5), 1992, 1127-1150.

- Ichniowski, C., K. Shaw and G. Prennushi. "The Effects of Human Resource Management Practices on Productivity: A Study of Steel Finishing Lines." *American Economic Review*, 87(3), 1997, 291-313.
- Jovanovic, B. "Selection and Evolution of Industry." *Econometrica*, 50(3), 1982, 25-43.
- Klette, T. and S. Kortum. "Innovating Firms and Aggregate Innovation." *Journal of Political Economy*, 112(5), 2004, 986-1018.
- Lambson V. "Competitive Profits in the Long Run." *Review of Economic Studies*, 59(1), 1992, 125-142.
- Lucas, R. "On the Size Distribution of Business Firms." *Bell Journal of Economics*, 9(2), 1978, 508-523.
- Maksimovic, Vojislav and Gordon Phillips. "The Market for Corporate Assets: Who Engages in Mergers and Asset Sales and Are There Efficiency Gains?" *Journal of Finance*, 56(6), 2001, 2019-2065.
- Maksimovic, Vojislav and Gordon Phillips. "Do Conglomerate Firms Allocate Resources Inefficiently across Industries? Theory and Evidence." *Journal of Finance*, 57(2), 2002, 721-767.
- Melitz, M. "The Impact of Trade on Intra-Industry Reallocations and Aggregate Industry Productivity." *Econometrica*, 71(6), 2003, 1695-1725.
- Olley, S. and A. Pakes. "The Dynamics of Productivity in the Telecommunications Equipment Industry." *Econometrica*, 1996, 1263-1298.
- Petrin, A. and J. Sivadasan. "Estimating Lost Output from Allocative Inefficiency, with Application to Chile and Firing Costs." *Review of Economics and Statistics*, forthcoming.
- Schoar, Antoinette. 2002. "The Effect of Diversification on Firm Productivity." *Journal of Finance*, 62(6): 2379-2403.
- Syverson, C. "Product Substitutability and Productivity Dispersion." *Review of Economics and Statistics*, May 2004, 534-550.
- Syverson, C. "Market Structure and Productivity: A Concrete Example." *Journal of Political Economy*, December 2004, 1181-1222.
- Syverson, C. "What Determines Productivity?" *Journal of Economic Literature*, June 2011, 326-365.

2. Product Differentiation

- C-P, chapter 7.
- Tirole, chapter 7.
- Anderson, S., A. de Palma and J.-F. Thisse, *Discrete Choice Theory of Product Differentiation*, MIT Press, 1992.
- Berry, S., J. Levinsohn, and A. Pakes. "Automobile Prices in Market Equilibrium." *Econometrica*, 63(4), 1995, 841-90.
- Dixit, A. and J. Stiglitz. "Monopolistic Competition and Optimum Product Diversity." *American Economic Review*, 1977, 297-308.
- Petrin, A. "Quantifying the Benefits of New Products: The Case of the Minivan." *Journal of Political Economy*, 110, 2002, 705-729.
- Salop, S. "Monopolistic Competition with Outside Goods." *Bell Journal of Economics*, 1979, 41-56.

3. Advertising and Search

- C-P, chapters 14 - 15.
- Tirole, chapter 2, 289-95.

- Akerberg, D., "Empirically Distinguishing Informative and Prestige Effects of Advertising," *RAND Journal of Economics*, 2001, 100-118.
- Becker G., and K. Murphy, "A Simple Theory of Advertising as Good (or Bad)," 108 *Quarterly Journal of Economics*, 1993, 941-964.
- Benabou, R., "Search Market Equilibrium, Bilateral Heterogeneity, and Repeat Purchases," 60 *Journal of Economic Theory*, 1993, 140-158.
- Brown, J. and A. Goolsbee. "Does the Internet Make Markets More Competitive? Evidence from the Life Insurance Industry," *Journal of Political Economy*, 2002, 481-507.
- Butters, G., "Equilibrium Distributions of Sales and Advertising Prices," 44 *Review of Economic Studies*, 1977, 465-491.
- Carlson, J.A. and R.P. McAfee, "Discrete Equilibrium Price Dispersion." *Journal of Political Economy*, 1983, 480-493.
- Diamond, P., "A Model of Price Adjustment," 3 *Journal of Economic Theory*, 1971, 156-168.
- De los Santos, Babur. "Consumer Search on the Internet." Working Paper, 2008.
- Dubé, J.P., Günter Hitsch, and Puneet Manchanda. "An Empirical Model of Advertising Dynamics," *Quantitative Marketing and Economics*, 3, 2005, 107-144.
- Ellison, G. and S. Ellison, "Search, Obfuscation, and Price Elasticities on the Internet," *Econometrica*, 77(2), 2009, 427-452.
- Georee, M. "Limited Information and Advertising in the US Personal Computer Industry," *Econometrica*, 76(5), 2008, 1017-1074.
- Goldmanis, M., A. Hortaçsu, and C. Syverson, and O. Emre, "E-commerce and the Market Structure of Retail Industries." *Economic Journal*, 120(545), 2010, 651-682.
- Hong, Han and Matthew Shum. "Using Price Distributions to Estimate Search Costs." *RAND Journal of Economics*, 37(2), 2006, 257-275.
- Hortaçsu, A. and C. Syverson. "Search Costs, Product Differentiation, and the Welfare Effects of Entry: A Case Study of S&P 500 Index Funds." *Quarterly Journal of Economics*, May 2004, 403-456.
- Iizuka, T. and G. Jin. "The Effect of Prescription Drug Advertising on Doctor Visits." *Journal of Economics and Management Strategy*, Fall 2005, 701-27.
- Kihlstrom, R. and M. Riordan, "Advertising as a Signal," *Journal of Political Economy*, 81, 1984, 427-50.
- Kim, J., P. Albuquerque, and B. Bronnenberg. "Online Demand Under Limited Consumer Search." Working Paper, June 2009.
- Milgrom, P. and J. Roberts. "Price and Advertising Signals of Product Quality." 94 *Journal of Political Economy*, 1986, 796-821.
- Milyo, J. and J. Waldfogel, "The Effect of Price Advertising on Prices: Evidence in the Wake of 44 *Liquormart*," *American Economic Review* 1999, p.1081
- Rauh, M. "Strategic Complementarities and Search Market Equilibrium," *Games and Economic Behavior*, 2009.
- Reinganum, J, "A Simple Model of Equilibrium Price Dispersion," *Journal of Political Economy* 1979, 851-8
- Sorensen, A. "Equilibrium Price Dispersion in Retail Markets for Prescription Drugs." *Journal of Political Economy*, August 2000, 833-50.
- Stahl, Dale O. II, "Oligopolistic Pricing with Sequential Consumer Search", *American Economic Review* 1989, 700-12
- Stigler, G., "Economics of Information," 69 *Journal of Political Economy*, 1961, 213-225.

4. Vertical Integration, Vertical Relationships, and Firm Network Structure

- C-P, chapters 2 and 13.
 Tirole, Chapters 0 and 4
- Acemoglu, Daron, Asuman Ozdaglar, and Alireza Tahbaz-Salehi. "Cascades in Networks and Aggregate Volatility." NBER Working Paper 16516, 2010.
- Aghion, P. and P. Bolton, "Contracts as a Barrier to Entry," *American Economic Review* (1987), 388-401
- Atalay, Enghin, Ali Hortaçsu, James W. Roberts, and Chad Syverson. 2011. "On the Network Structure of Production." *Proceedings of the National Academy of Sciences*, March 29, 2011, 5199-5202.
- Asker, John. "Diagnosing Foreclosure Due to Exclusive Dealing," Working Paper, NYU Stern, 2005.
- Baker, G. P. and T. N. Hubbard, "Make versus Buy in Trucking: Asset Ownership, Job Design, and Information," *American Economic Review*, 93(3), June 2003, 551-572
- Baker, G. P. and T. N. Hubbard "Contractibility and Asset Ownership: On-Board Computers and Governance in U. S. Trucking," *Quarterly Journal of Economics*, 119(4), Nov. 2004, 1443-1479.
- Bernheim, B. D. and M. D. Whinston. "Exclusive Dealing." *Journal of Political Economy*, February 1998, 64-103.
- Bork, R., *The Antitrust Paradox: A Policy at War with Itself*. New York: Basic Books, 1978.
- Carlton, D. and M. Waldman, "The Strategic Use of Tying to Preserve and Create Market Power in Evolving Industries," *RAND Journal of Economics*, Summer 2002, 194-220.
- Carvalho, Vasco. 2010. "Aggregate Fluctuations and the Network Structure of Intersectoral Trade." Working paper.
- Chaney, Thomas. "The Network Structure of International Trade." NBER Working Paper 16753, April 2011.
- Chipty, T. "Vertical Integration, Market Foreclosure, and Consumer Welfare in the Cable Television Industry." *American Economic Review*, 2001, 428-53.
- Coase, R. H. "The Nature of the Firm." *Economica*, 1937, 386-405.
- Forbes, Silke and Mara Lederman. 2010. "Does Vertical Integration Affect Firm Performance? Evidence from the Airline Industry." *RAND Journal of Economics*. 41(4), 765-790.
- Gilbert, R. and J. Hastings. "Market Power, Vertical Integration and the Wholesale Price of Gasoline." *Journal of Industrial Economics*, 53(4), 2005, 469-492.
- Grossman, S. and O. Hart, "The Costs and Benefits of Ownership: A Theory of Lateral and Vertical Integration," 94 *Journal of Political Economy*, 1986, 691-719.
- Hart, O. and J. Tirole. "Vertical Integration and Market Foreclosure." *Brookings Papers on Economic Activity*, 1990, 205-76.
- Hastings, J. "Vertical Relationships and Competition in Retail Gasoline Markets: Empirical Evidence from Contract Changes in Southern California." *American Economic Review*, 2004, 317-328.
- Hortaçsu, A. and C. Syverson. "Cementing Relationships: Vertical Integration, Foreclosure, Productivity, and Prices." *Journal of Political Economy*, 115(2), 2007, 250-301.
- Hortaçsu, A. and C. Syverson. "Why Do Firms Own Production Chains?" Working Paper, 2009.
- Kellogg, Ryan. 2009. "Learning by Drilling: Inter-Firm Learning and Relationship Persistence in the Texas Oilpatch." *Quarterly Journal of Economics*, forthcoming.
- Kranton, Rachel E. and Deborah F. Minehart. 2001. "A Theory of Buyer-Seller Networks." *American Economic Review*, 91(3): 485-508.
- Nocke, V. and L. White. "Do Vertical Mergers Facilitate Upstream Collusion?" *American Economic Review*, forthcoming.

- Ordover, J. A., G. Saloner, and S. C. Salop. "Equilibrium Vertical Foreclosure." *American Economic Review*, 1990, 127-142.
- Rey, P. and J. Tirole. "A Primer on Foreclosure." *Handbook of Industrial Organization III*, Mark Armstrong and Rob Porter (eds.).
- Salinger, M. A. "Vertical Mergers and Vertical Foreclosure." *Quarterly Journal of Economics*, 1988, 345-356.
- Whinston, M. "Tying, Foreclosure, and Exclusion," *American Economic Review*, 80 (1990), 837-54.
- Williamson, O., "Transaction-Cost Economics: The Governance of Contractual Relationships," *22 Journal of Law and Economics*, 1979, 232-262.

5. Strategic Behavior, Entry Accommodation and Deterrence

- C-P, chapter 11
- Tirole, Chapters 8 and 9
- Aghion, Philippe and Patrick Bolton. "Contracts as a Barrier to Entry." *American Economic Review*, 77(3), 1987, 388-401.
- Bain, Joe S. *Barriers to New Competition: Their Character and Consequences in Manufacturing Industries*. Cambridge, MA: Harvard University Press. 1956.
- Baumol, William J., John C. Panzar, and Robert D. Willig. *Contestable Markets and the Theory of Industry Structure*. San Diego: Harcourt Brace Jovanovich, 1982.
- Benkard, C. Lanier. "A Dynamic Analysis of the Market for Wide-Bodied Commercial Aircraft." *Review of Economic Studies*, 71(3), July 2004, 581-611.
- Bulow, Jeremy, John Geanakoplos, and Paul Klemperer. "Holding Idle Capacity to Deter Entry." *Economic Journal*, 95(377), 1985, 178-182.
- Dafny, Leemore, "Games Hospitals Play: Entry Deterrence in Hospital Procedure Markets," *Journal of Economics and Management Strategy*, 14(2), 2005, 513-542.
- Dixit, Avinash. "A Model of Duopoly Suggesting a Theory of Entry Barriers." *Bell Journal of Economics*, 10(1), 1979, 20-32.
- Ellison, G. and S. Ellison, "Strategic Entry Deterrence and Behavior of Pharmaceutical Incumbents Prior to Patent Expiration," Working Paper, 2007.
- Farrell, Joseph and Paul Klemperer. "Coordination and Lock-In: Competition with Switching Costs and Network Effects." forthcoming in Michael Armstrong and Robert Porter, eds., *Handbook of Industrial Organization*, Vol. 3, Amsterdam: North-Holland, 2004.
- Goolsbee, A. and C. Syverson. "How Do Incumbents Respond to the Threat of Entry? Evidence from the Major Airlines," *Quarterly Journal of Economics*, 123(4), 2008, 1611-33.
- Klemperer, Paul. "Entry Deterrence in Markets with Consumer Switching Costs." *Economic Journal*, 97(Supplement: Conference Papers), 1987, 99-117.
- Kreps, David M. and Robert Wilson. "Reputation and Imperfect Information." *Journal of Economic Theory*. 27(2), 1982, 253-279.
- Milgrom, Paul and John Roberts. "Limit Pricing and Entry Under Incomplete Information: An Equilibrium Analysis." *Econometrica*, 50(2), 1982, 443-460.
- Milgrom, Paul and John Roberts. "Predation, Reputation and Entry Deterrence." *Journal of Economic Theory*, 27(2), 1982, 280-312.
- Selten, Reinhard. "The Chain Store Paradox." *Theory and Decision*, 9(2), 1978, pp. 127-159.
- Wendling, Brett and Steven Tenn. "Entry Threats and Pricing in the Generic Drug Industry." FTC Working Paper No. 301, June 2010.