Curriculum Vitae

Daniel A. Levinthal

Department of Management, The Wharton School
2000 Steinberg-Dietrich Hall
University of Pennsylvania
Philadelphia, PA 19104-6370

Education

1979-1985 Ph. D., Economics, Business, and Public Policy
Graduate School of Business, Stanford University

1975-1979 BA, Harvard University

Employment

1998-present University of Pennsylvania
The Wharton School
Professor of Management

1989-1998 University of Pennsylvania
The Wharton School
Associate Professor of Management

1985-1989 Carnegie Mellon University
Graduate School of Industrial Administration
Assistant Professor of Economics and Industrial Administration

1983-1985 Carnegie Mellon University
Graduate School of Industrial Administration
Instructor of Economics and Industrial Administration

Visiting Positions

2012-2013 Michael Crouch Visiting Professorial Fellow
University of New South Wales

June 2003 Philip Morris Visiting Professor
Sant 'Anna School of Advanced Studies
University of Pisa

1998-1999 Bower Fellow
Harvard Business School
Harvard University

Honors

Fellow of the Strategic Management Society
Fellow of the Academy of Management
Distinguished Scholar, Organizational and Management Theory,
Academy of Management 2010
Honorary Doctorate, University of Southern Denmark

Publications

G. Gavetti, H. Greve, D. Levinthal, and W. Occasio (forthcoming). Behavioral Theory of the Firm: Assessment and Prospects, *The Academy of Management Annals.*

H. Posen and D. Levinthal (2012). Chasing a Moving Target: Exploration and Exploitation in a Dynamic Environment. *Management Science,* 58: 587-601.

D. Levinthal (2011). A Behavioral View of Strategy --- What's the Alternative? *Strategic Management Journal*, 32: 1517-1524.

D. Levinthal and B. Wu (2010). The Rational Tradeoff between Corporate Scope and Profit Margins: The Role of Capacity-Constrained Capabilities and Market Maturity". *Strategic Management Journal*, 31: 780-801.

C. Fang and D. Levinthal (2009). "The Near-Term Liability of Exploitation: Exploration and Exploitation in Multi-Stage Problems." *Organization Science,* 20: 538-551.

S. Ethiraj and D. Levinthal (2009). "Hoping for A to Z while Rewarding only A: Complex Organizations and Multiple Goals". *Organization Science,* 20: 4-24.

P. Ghemawat and D. Levinthal (2008). "Choice Structures and Business Strategy". *Management Science*, 54: 1638-1651.

D. Levinthal (2008). "Understanding the Role of Novelty in Organizational Adaptation". In J. March, *Explorations in Organizations*. Stanford University Press, Stanford, CA.

R. Adner and D. Levinthal (2008). "Doing versus Seeing: Acts of Exploitation and Perceptions of Exploration". *Strategic Entrepreneurship Journal,* 2: 43-52.

S. Ethiraj , D. Levinthal, and R. Roy (2008) "The Dual Role of Modularity: Innovation and Imitation". *Management Science*, 54: 939-955.

D. Levinthal and H. Posen (2007). "Myopia of Selection: Does Organizational Adaptation Limit the Efficiency of Population Selection? *Administrative Science Quarterly*, 52: 586-620.

D. Levinthal (2007). "Technology: The role of network structures". *Strategic Entrepreneurship Journal*, 1: 189-190.

G. Gavetti, D. Levinthal, and W. Ocasio. (2007). "Neo-Carnegie: The Carnegie School's Past, Present, and Reconstructing for the Future". *Organizational Science,* 18: 523-536.

Levinthal, D. (2007). "Bringing selection back into our evolutionary theories of innovation". F. Malerba and S. Brusoni (eds.). *Perspectives on the Economics of Innovation*. Cambridge University Press.

Knudsen, T. and D. Levinthal (2007). "Two faces of search: Alternative generation and alternative evaluation". *Organizational Science,*18: 39-54.

Levinthal, D. and C. Rerup. (2006). "Crossing an apparent chasm: Bridging mindful and less-mindful perspectives on organizational learning". *Organizational Science.*17: 502-513.

Levinthal, D. (2006). "The Neo-Schumpeterian Theory of the Firm and the Strategy Field". *Industrial and Corporate Change,* 15(2): 391-394.

Levinthal, D. (2006). "Comments on the Resource Allocation Process". In J. Bower and C. Gilbert (eds.). *From Resource Allocation to Strategy.* Oxford University Press.
G. Gavetti, D. Levinthal, and J. Rivkin (2005). "Strategy-Making in Novel and Complex Worlds: The Power of Analogy". *Strategic Management Journal,* 26: 691-712.

Gavetti, G., D. Levinthal, and J. Rivkin (2005). Strategy making in novel and complex worlds: The power of analogy. *Strategic Management Journal,* 26: 691-712.

Siggelkow, N. and D. Levinthal (2005). "Escaping real (non-benign) Competency Traps: Linking the Dynamics of the Organizational Structure to the Dynamics of Search". *Strategic Organization*, 3: 85-115.

Ethiraj, S. and D. Levinthal (2004). "Bounded Rationality and the Search for Organizational Architecture: An Evolutionary Perspective on the Design of Organizations and their Evolvability". *Administrative Science Quarterly*, 49: 404-437.

Gavetti, G. and D. Levinthal (2004). "Strategy Field from the Perspective of *Management Science*". *Management Science,* 50: 1309-1318.

Denrell, J., C. Fang, and D. Levinthal (2004). "From T-Mazes to Labyrinths: Learning from Model-Based Feedback". *Management Science,* 50: 1366-1378.

Ethiraj, S. and D. Levinthal (2004). "Modularity and Innovation in Complex Systems". *Management Science*, 50: 159-174.

Siggelkow, N. and D. Levinthal (2004). "Temporally Divide to Conquer: Centralized, Decentralized, and Reintegrated Organizational Adaptations to Exploration and Adaptation". *Organization Science,* 14: 650-669.

Adner, R. and D. Levinthal (2004). "Real Options and Real Tradeoffs". *Academy of Management Review*, 29: 120-126.

Adner, R. and D. Levinthal (2004). "What is *not* a Real Option: Considering Boundaries for the Application of Real Options to Business Strategy". *Academy of Management Review*, 29: 74-85..

Dosi, G., D. Levinthal, and L. Marengo (2003).
"Bridging Contested Terrain: Linking Incentive-Based and Learning Perspectives on Organizational Evolution". *Industrial and Corporate Change,* 12: 413- 436.

Levinthal, D. (2003). "Imprinting and the Evolution of Firm Capabilities". In C. Helfat (ed.), *The SMS Blackwell Handbook of Organizational Capabilities.* Blackwell Publishing, Oxford England.

Levinthal, D. (2002)
"Cognition and Models of Adaptive Learning", in *Economics of Change, Choice, and Structure: Essays in the Memory of Richard M. Cyert*, edited by J. March and M. Augier. Edward Elgar Publishing, Ltd.

Adner, R. and D. Levinthal (2002). "The Emergence of Emerging Technologies". *California Management Review,* 45: 50-66

Adner, R. and D. Levinthal (2001)

"Technology Evolution and Demand Heterogeneity: Implications for Product and Process Innovation", *Management Science*, 47: 611-628.

Levinthal, D. (2001)
"Modeling Adaptation on Rugged Landscapes", in *Simulating Organizational Societies: Theories, Models and Ideas*, edited by Alessandro Lomi and Erik Larsen. MIT Press. (translated in M. Lombardi and F. Squazzoni (eds.) Saggi di economia evolutiva ("Papers in Evolutionary Economics") FrancoAngeli Publishing Company, Milan Italy).

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"Organizational Capabilities in Complex Worlds" in *The Nature and Dynamics of Organizational Capabilities*, edited by G. Dosi, R. Nelson, and S. Winter. Oxford University Press.

Adner, R. and D. Levinthal (2000)
"Technology Speciation and the Path of Emerging Technologies", in *Wharton on Emerging Technologies*, edited by G. Day and P. Shoemaker. John Wiley & Sons.

Gavetti, G. and D. Levinthal (2000)
"Looking Forward and Looking Backward: Cognitive and Experiential Search". *Administrative Science Quarterly*, 45: 113-137.

Levinthal, D and M. Warglien (1999)
"Landscape Design: Designing for Local Action in Complex Worlds". *Organizational Science*, 10: 342-357.

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"The Slow Pace of Rapid Technological Change: Gradualism and Punctuation in Technological Change". *Industrial and Corporate Change*, 7: 217-247.
(reprinted in *Understanding Industrial and Corporate Change*, edited by Dosi, Teece, and Chytry, Oxford University Press 2005)

Levinthal, D. (1997)
"Adaptation on Rugged Landscapes". *Management Science*, 43: 934-950.
(reprinted in *The Economics of Organization and Bureaucracy*, edited by Peter M. Jackson. Edward Elgar Publishing).

Levinthal, D. (1997)
"Three Faces of Learning: Wisdom, Inertia, and Discovery", in *Technological Innovation: Oversights and Foresights*, edited by R. Garud, P. Nayyar, and Z. Shapiro. Cambridge University Press.

Levinthal, D. (1996)
"Learning and Schumpeterian Environments", in *Organization and Strategy in the Evolution of the Enterprise*, edited by Franco Malerba and Giovanni Dosi, University Michigan Press.

Levinthal, D. (1995)
"Strategic Management and the Exploration of Diversity", in *Evolutionary and Resource-Based Approaches to Strategy*, edited by Cynthia Montgomery, Kluwer Academic Press.

Levinthal, D. and J. Myatt (1994)
"Co-Evolution of Capabilities and Industry: A Study of Mutual Fund Processing". *Strategic Management Journal*, 15: 45-62

Cohen, W. and D. Levinthal (1994)
"Fortune Favors the Prepared Firm". *Management Science*, 40: 227-251

Levinthal, D. and J. March (1993)
"The Myopia of Learning". *Strategic Management Journal*, 14: 95-112.
(Reprinted in N. Lazaric, F. Lorenz, and E. Lorenz Eds., *Knowledge, Learning and Routines*. Edward Elger, 2002)
Winner of the 2002 Strategic Management Society Best Paper Prize for work with the most significant impact over the prior 10 years

Levinthal, D. (1992)
"Surviving Schumpeterian Environments: An Evolutionary Perspective". *Industrial and Corporate Change*, 1: 427-443. (Also appears in Baum and Singh Eds., *Evolutionary Dynamics of Organizations*)

Seabright, M., D. Levinthal, and M. Fichman. (1992)
"The Role of Individual Attachments in Interorganizational Relationships". *Academy of Management Journal*, 35: 122-160.

Levinthal, D. (1991)
"Random Walks and Organizational Mortality". *Administrative Science Quarterly*, 36: 397-420.

Fichman, M. and D. Levinthal. (1991)
"Ties that Bind: History Dependence in Professional Relationships", in *Research in the Sociology of Organizations*, edited by S. Bacharach, S. Barley and P. Tolbert. JAI Press, 119-153.

Fichman, M. and D. Levinthal. (1991)
"Honeymoons and the Liability of Adolescence: A New Perspective on Duration Dependence in Social and Organizational Relationships". *Academy of Management Review*, 16: 442-468.

Levinthal, D. (1991)
"Organizational Adaptation and Environmental Selection - Interrelated Processes of Change". *Organizational Science*, 2: 140-145 (Reprinted in L. Sproull and M. Cohen (Eds.), *Organizational Learning*, Sage Publications, 1996).

Levinthal, D. (1990)
"Organizational Adaptation, Environmental Selection and Random Walks", in *Organizational Evolution: New Perspectives*, edited by J. Singh, Sage Publications, pp. 201-223.

Cohen, W. and D. Levinthal. (1990)
"Absorptive Capacity: A New Perspective on Learning and Innovation", *Administrative Science Quarterly*, 35: 128-152.
(Reprinted in B. Martin and P. Nightingale (Eds.), *Science, Technology and Innovation*. Edward Elgar Publishing; Reprinted in Burgelman, Christensen, and Wheelright (Eds.), *Strategic Management of Technology and Innovation*, 2003; Reprinted in *Knowledge and Learning in the Firm*, edited by Bart Nooteboom Edward Elger 2006; Reprinted in W. Starbuck (Ed.) *Learning by Organizations* Vol. II. Edward Elger 2007)

Cohen, W. and D. Levinthal. (1990)

"The Implications of Spillovers for R&D Investment and Welfare: A New Perspective", in *Advances in Applied Microeconomics, Vol. 5: Factors Affecting Technological Change*, edited by Al Link and Kerry Smith. JAI Press, pp.29-45.

Cohen, W. and D. Levinthal. (1989)
"Innovation and Learning: The Two Faces of R&D". *Economic Journal*, 99: 569-596. (Reprinted in E. Mansfield and E. Mansfield (eds.), *The Economics of Technical Change*. (1993) Edward Elgar Publishing; N. Wolff (1997), *The Economics of Productivity*, Edward Elgar Publishing; A. Link (ed.) (2008), *The Economic Theory of Invention and Innovation*, Edward Elgar Publishing; B. Nooteboom (ed.) (2006), *Knowledge and Learning*, Edward Elgar Publishing)

Levinthal, D. and D. Purohit. (1989)
"Durable Goods and Product Obsolescence". *Marketing Science*, 8: 35-56.

Levinthal, D. and M. Fichman. (1988)
"Dynamics of Interorganizational Attachments: Auditor Client Relationships". *Administrative Science Quarterly*, 33: 345-369.

Levinthal, D. (1988)
"A Survey of Agency Models of Organizations". *Journal of Economics Behavior and Organizations*, 9: 153-185.

Herriott, S., D. Levinthal. and J. March. (1985)
"Learning with Experience in Organizations". *American Economic Review*, 75: 298-302 (Reprinted in J. G. March (Col.), *Decisions and Organizations*. Oxford, United Kingdom: Basil Blackwell, 1988).

Levinthal, D. and J. March. (1981)
"A Model of Adaptive Organizational Search". *Journal of Economic Behavior and Organizations*, 2: 307-333 (Reprinted in J. G. March (Col.), *Decision and Organizations*. Oxford, United Kingdom: Basil Blackwell, 1988).

Working Papers

M. Warglien, M. Cohen, and D. Levinthal
Collective Performance: Modeling the Interaction of Habit-based Actions

D. Levinthal and A. Marino
"From Dynamic Capabilities to Dynamic Organizations: The Internal Ecology of Organizational Learning"

B. Wu, Z. Wan, and D. Levinthal
"Complementary Assets as Pipes and Prisms: Innovation Incentives and Trajectory Choice"

T. Knudsen, D. Levinthal, and S. Winter
Hidden but in Plain Sight: The Role of Scale Adjustment in Industry Dynamics

H. Posen, D. Martignoni, D. Levinthal.
Does Size Matter? Organizational Size and the Efficacy of Experiential Learning

Service

Chair of the Management Department (2001 – 2010)
University Search Committee for Wharton Dean (2007)

Coordinator of Management Department Ph.D. Program (1998-2001)
Wharton School Personnel Committee (1998-2000); Chair (1999-2000)

Editorial Roles

Editor-in-Chief, Organization Science (2010-present)
Editor, Industrial and Corporate Change (2010-present)
Editorial Advisory Board, Academy of Management Annual Review Series (2005-present)
Editorial Board, Strategic Organization (2004-2010)
Department Editor for Business Strategy, Management Science (2000-2003)
Associate Editor, Management Science (1992 – 1998; 2003-present)
Editorial Board, Journal of Management and Governance (1998-present)
Editorial Board, Administrative Science Quarterly, (1989-1992)

Scientific Committees

Advanced School of Economics and Management, University of Venice (2008 – 2010)
Danish Research Unit for Industry Dynamics (DRUID) (2008 – present)
Center for Innovation Research, University of Tilburg (2010 – present)