

ADVANCES IN

Behavioral
Economics

Edited by

COLIN F. CAMERER

GEORGE LOEWENSTEIN

AND MATTHEW RABIN

Advances in Behavioral Economics

THE ROUNDTABLE SERIES IN BEHAVIORAL ECONOMICS

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Advances in Behavioral Economics

Edited by

*COLIN F. CAMERER, GEORGE LOEWENSTEIN,
and MATTHEW RABIN*

RUSSELL SAGE FOUNDATION, NEW YORK, NEW YORK

PRINCETON UNIVERSITY PRESS

PRINCETON AND OXFORD

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Permissions, Princeton University Press

Published by Princeton University Press,
41 William Street,
Princeton, New Jersey 08540
In the United Kingdom: Princeton University Press,
3 Market Place, Woodstock, Oxfordshire OX20 1SY
and Russell Sage Foundation,
112 East 64th Street, New York, New York 10021

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Library of Congress Cataloging-in-Publication Data
Advances in behavioral economics / edited by Colin F. Camerer, George Loewenstein, and
Matthew Rabin.

p. cm. — (The roundtable series in behavioral economics)

Includes bibliographical references and index.

ISBN 0-691-11681-4 (alk. paper) — ISBN 0-691-11682-2 (pbk.: alk. paper)

1. Economics—Psychological aspects. I. Camerer, Colin, 1959– II. Loewenstein, George.
III. Rabin, Matthew, 1963– IV. Series.

HB74.P8A375 2003
330'.01'9—dc21 2003044481

This book was composed in Times

Printed on acid-free paper. ∞

www.pup.princeton.edu
www.russellsage.org

Printed in the United States of America
10 9 8 7 6 5 4 3 2 1

To Daniel Kahneman, Richard Thaler, Amos Tversky, and Eric Wanner

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C O N T R I B U T O R S

GEORGE A. AKERLOF is the Koshland Professor of Economics at the University of California, Berkeley. He received his Ph.D. from MIT in 1966, at which time he joined the faculty at Berkeley. In 2001 he was corecipient of the Nobel Prize in Economics for his work on the role of asymmetric information in markets. He has also pioneered the application of sociology and psychology to the workings of the macroeconomy. He has proposed efficiency wage explanations for unemployment. According to these explanations, employers, because of concerns about worker morale, may not wish to reduce wages to market clearing. He has also explored reasons why firms might be slow to change wages and prices, thereby explaining the business cycle and the effectiveness of monetary policy. Akerlof has been vice president and member of the executive committee of the American Economics Association.

LINDA BABCOCK is the James Mellon Walton Professor of Economics at the Heinz School of Public Policy and Management at Carnegie Mellon University. Babcock earned a Ph.D. in economics from the University of Wisconsin and has received numerous research grants from the National Science Foundation. She teaches negotiation and has won the school's highest teaching award twice. She has investigated how cognitive biases in negotiator beliefs cause conflict in negotiations, as well as the effect of various tort reforms on negotiation impasses, and the role of social comparisons in affecting negotiated outcomes. Her research has appeared in the most prestigious economics, industrial relations, and law journals. Her most recent research examines the situational factors that affect gender differences in negotiation and is summarized in her recent book, *Women Don't Ask: Negotiation and the Gender Divide* (Princeton, 2003).

SHLOMO BENARTZI is an associate professor at UCLA's Anderson Graduate School of Management. Benartzi received his Ph.D. from Cornell University's Johnson Graduate School of Management. His research investigates participant behavior in defined contribution plans. In particular, his current work examines how participants make investment choices in retirement saving plans and how employee saving rates could be increased. Benartzi's work has been published in the *Journal of Political Economy*, *American Economic Review*, *Journal of Finance*, and *Management Science*. His work has been discussed in the *Economist*, *Financial Times*, *Investor's Business Daily*, the *Los Angeles Times*, *Money Magazine*, the *New York Times*, *Plan Sponsor*, *Pensions and Investments*, the *Wall Street Journal*, and CNBC. Benartzi served on the ERISA Advisory Council of the U.S. Department of Labor, and he currently serves on the advisory board of Morningstar and the Investment Advisory Council of the Alaska State Pension.

COLIN F. CAMERER is the Axline Professor of Business Economics at Caltech, in Pasadena, California, where he teaches both psychology and economics. Camerer earned a Ph.D. in behavioral decision theory in 1981 from the University of Chicago,

and worked at Kellogg, Wharton, and Chicago business schools before Caltech. His research in behavioral economics focuses mostly on theories of risky decision making and strategic behavior in games. He has also done experiments on price bubbles and “cascades” in asset markets, creation of organizational culture in the form of “codes,” and is now doing neuroscientific imaging experiments on behavior in games. Camerer has also analyzed field data on hot-hand biases and commitment escalation in NBA basketball, and the labor supply of New York City cab drivers. Besides nearly 100 journal articles and book chapters, he is the coauthor or editor of four books, and the author of *Behavioral Game Theory* (Princeton, 2003). Camerer was the first behavioral economist to become a Fellow of the Econometric Society, in 1999, and was president of the Economic Science Association 2001–03.

VINCENT CRAWFORD earned an A.B. summa cum laude in Economics from Princeton in 1972, and a Ph.D. in economics from the Massachusetts Institute of Technology in 1976. Since 1976 he has worked at the University of California, San Diego, where he is now Professor of Economics. He has held visiting positions at Harvard, Princeton, Australian National University, University of Canterbury, and the Ecole des Hautes Etudes en Sciences Sociales. Honors include election as Fellow of the Econometric Society, a Guggenheim fellowship, election to the Council of the Game Theory Society and to an Overseas Fellowship at Churchill College, Cambridge, and several invited lectures. His work focuses on game theory and its applications, from early work on learning in games, bargaining and arbitration, matching markets, coordination, and strategic communication to recent work interpreting the results of experiments and conducting experiments to study players’ mental models of other players.

PETER DIAMOND is an Institute Professor at the Massachusetts Institute of Technology, where he has taught since 1966. He received his B.A. in Mathematics from Yale University in 1960 and his Ph.D. in Economics from MIT in 1963. He has been president of the Econometric Society and is president of the American Economic Association. He is a founding member of the National Academy of Social Insurance, where he has been president and chair of the board. He is a Fellow of the American Academy of Arts and Sciences and a Member of the National Academy of Sciences. He was the recipient of the 1980 Mahalanobis Memorial Award and the 1994 Nemmers Prize. He has written on behavioral economics, public finance, social insurance, uncertainty and search theories, and macroeconomics. His writings on social security reflect his awareness of the importance of behavioral issues.

ERNST FEHR is a professor in Microeconomics and Experimental Economics at the University of Zürich. He is director of the Institute for Empirical Research in Economics at the University of Zürich and of the Ludwig Boltzmann Institute for the Analysis of Economic Growth in Vienna. Ernst Fehr graduated at the University of Vienna in 1980, where, in 1986, he also earned his doctorate. His research focuses on the proximate patterns and the evolutionary origins of human altruism and the interplay between social preferences, social norms, and strategic interactions. He

has conducted extensive research on the impact of social preferences on competition, cooperation, and on the psychological foundations of incentives. More recently he has worked on the role of bounded rationality in strategic interactions. He is on the editorial board of the *Quarterly Journal of Economics*, the *European Economic Review*, *Games and Economic Behavior*, the *Journal of the European Economic Association*, the *Journal of Public Economics and Experimental Economics*. He won the Gossen Price of the German Economic Association in 1999 and the Hicks-Tinbergen Medal of the European Economic Association in 2000. He has given several keynote lectures, among them the Frank Hahn Lecture at the annual Congress of the Royal Economic Society 2001, the Schumpeter Lecture at the annual Congress of the European Economic Association 2001, and an invited Lecture at the Eighth World Congress of the Econometric Society in 2000. He is president of the Economic Science Association for the years 2003–5.

ROBERT H. FRANK is the H. J. Louis Professor of Economics at Cornell's Johnson Graduate School of Management. He received his B.S. in mathematics from Georgia Tech in 1966, then taught math and science for two years as a Peace Corps Volunteer in rural Nepal. He received his M.A. in statistics from the University of California, Berkeley, in 1971 and his Ph.D. in economics in 1972, also from UC Berkeley. During leaves of absence from Cornell, Frank was chief economist for the Civil Aeronautics Board from 1978 to 1980, a Fellow at the Center for Advanced Study in the Behavioral Sciences in 1992–93, and a professor of American Civilization at the Ecole des Hautes Etudes en Sciences Sociales in Paris in 2000–1. Frank's books, which include *Choosing the Right Pond*, *Passions Within Reason*, *Microeconomics and Behavior*, *Principles of Economics* (with Ben Bernanke), and *Luxury Fever*, have been translated into nine languages. *The Winner-Take-All Society*, coauthored with Philip Cook, received a Critic's Choice Award, was named a Notable Book of the Year by the *New York Times*, and was included in *Business Week's* list of the ten best books of 1995.

SHANE FREDERICK is an assistant professor of management science at the Massachusetts Institute of Technology.

SIMON GÄCHTER is a professor of Economics at the University of St. Gallen. He teaches courses on microeconomics, game theory, organizational and labor economics, experimental economics, and economics and psychology. Gächter received his Ph.D. in Economics in 1994 at the University of Vienna. After postgraduate lecturer positions at the universities of Vienna and Linz, Gächter became an assistant professor at the University of Zürich. In 2000 he became a full professor of Economics at the University of St. Gallen. His main research interests and publications are on behavioral issues of voluntary cooperation and punishment, wage formation, and incentive contracting. Gächter is affiliated with the MacArthur Foundation research network on social norms and preferences and the CESifo research network on Employment and Social Protection.

DAVID GENESOVE is currently an associate professor of Economics at the Hebrew University of Jerusalem. He earned his Ph.D. at Princeton University in 1991, and

taught at the Massachusetts Institute of Technology from 1991 to 1998. He has been an editor of the *Journal of Industrial Economics* since 1998. Genesove has written extensively on industrial organization, producing empirical studies on a wide variety of markets, including those for used cars, fish, housing, sugar, and daily newspapers.

ITZHAK GILBOA is a professor at Eitan Berglas School of Economics and Recanati School of Business, Tel Aviv University, and a fellow of Cowles Foundation for Research in Economics, Yale University. He graduated from Tel Aviv University (in economics) in 1987 and was on the faculty of the Kellogg School of Management, Northwestern University, for ten years before returning to Israel. His main topic of research is decision under uncertainty in situations where there is too little information for the generation of a Bayesian prior. Together with David Schmeidler, Gilboa has developed axiomatic theories of decision making when information is modeled by sets of prior probabilities and by cases. Their joint project may be viewed as providing decision theories and axiomatic foundations for formal models representing information and belief that differ from the Bayesian one. The emphasis of this project is on scarcity of information rather than on irrational behavior or mistakes. Other topics that Gilboa has worked on include game theory, computational complexity, social choice, and consumer behavior.

URI GNEEZY is an associate professor of Behavioral Science at the University of Chicago Graduate School of Business, where he teaches negotiation. Gneezy earned a Ph.D. in economics in 1997 from the Center of Economic Research at Tilburg University, and worked at Haifa University and the Technion in Israel before Chicago. His research in behavioral economics investigates the effect of incentives on behavior in labor markets and its relation to sociological factors such as ethnicity and gender. Other areas of research are behavioral finance and behavioral game theory. The work is based mainly on laboratory experiments and field studies.

ROBERT M. HUTCHENS is a Professor in the Department of Labor Economics at Cornell's School of Industrial and Labor Relations. His early research dealt with the economics of government transfer programs and his later research has concentrated on long-term implicit contracts and on employer policy toward older workers. Hutchens has served as a policy fellow at the Brookings Institution, associate editor at the *Industrial and Labor Relations Review*, chairman of the Department of Labor Economics at Cornell, visitor at the University of British Columbia, and as a research fellow at the Institute for the Study of Labor (IZA).

DANIEL KAHNEMAN, winner of the 2002 Nobel Prize in Economics is currently a professor of Psychology and Public Policy at Princeton University. Formerly a professor of psychology at the University of California, Berkeley, a fellow at the Canadian Institute for Advanced Research, a professor of Psychology at the University of British Columbia, a fellow at the Center for Advanced Study in the Behavioral Sciences, and a professor at the Hebrew University in Jerusalem, Kahneman is a member of the American Academy of Arts and Sciences and the National Academy of Sciences. He is a fellow of the American Psychological

Association, the American Psychological Society, the Society of Experimental Psychologists, and the Econometric Society. He has been the recipient of numerous awards, among them the Distinguished Scientific Contribution Award of the American Psychological Association, the Warren Medal of the Society of Experimental Psychologists, and the Hilgard Award for Career Contributions to General Psychology. He earned a Ph.D. at the University of California, Berkeley.

JACK L. KNETSCH is a professor emeritus at Simon Fraser University in British Columbia, where he has taught and conducted research in the areas of behavioral economics, environmental economics, and law and economics for the past thirty years. He holds degrees in Soil Science, Agricultural Economics, Public Administration, as well as a Ph.D. in Economics from Harvard University. He has been with private and public agencies and organizations in the United States and Malaysia, and was at George Washington University before moving to Simon Fraser University. He has accepted visiting appointments at universities in Europe, Asia, Australia, as well as North America. Most of his behavioral economics research has involved tests of the disparity in people's valuations of gains and losses, and the implications of the observed differences in various areas of economic and policy interest. More recent work has included research on time preferences and measures of welfare change.

DAVID LAIBSON holds a B.A. from Harvard University, an M.Sc. from the London School of Economics and a Ph.D. from the Massachusetts Institute of Technology. In 1994 Laibson joined the economics faculty at Harvard University, where he is currently a professor of Economics. Laibson is a member of the National Bureau of Economic Research, where he is a research associate in the Asset Pricing, Economic Fluctuations, and Aging Working Groups. Laibson has received a Marshall Scholarship and grants from the National Science Foundation, the MacArthur Foundation, the National Institute on Health, the Sloan Foundation, and the John M. Olin Foundation. In 1999 he received the Phi Beta Kappa Prize for Excellence in Teaching. Laibson's research focuses on the topic of psychology and economics. He is currently working in the fields of macroeconomics, intertemporal choice, decision and cognitive sciences, behavioral finance, and experimental economics.

GEORGE LOEWENSTEIN is a professor of Economics and Psychology at Carnegie Mellon University. He received his Ph.D. from Yale University in 1985 and since then has held academic positions at the University of Chicago and Carnegie Mellon University, and fellowships at the Center for Advanced Study in the Behavioral Sciences, the Institute for Advanced Study in Princeton, the Russell Sage Foundation, and the Institute for Advanced Study in Berlin. His research focuses on applications of psychology to economics, and his specific interests include decision making over time, bargaining and negotiations, psychology and health, law and economics, the psychology of adaptation, the psychology of curiosity, and "out of control" behaviors such as impulsive violent crime and drug addiction.

CHRISTOPHER MAYER is an associate professor of Real Estate at Wharton School, University of Pennsylvania. Mayer, a real estate expert, has earned widespread

recognition for his teaching and publications in his field. His research explores a wide variety of topics, including the implications of behavior economics for the cyclical nature of real estate, both in housing and commercial real estate markets. Mayer has also written on the link between the housing market and local school spending, and the impact of taxes, land-use regulations, and pollution on housing and stock market values. He is continuing a long-term project on the airline industry, examining scheduling practices and congestion. Mayer has authored numerous academic articles on these subjects, and he is frequently interviewed in the national media, including the *Wall Street Journal*, CNBC, the *Washington Post*, and the *New York Times*. Mayer holds a B.A. in Math and Economics from the University of Rochester and a Ph.D. in Economics from MIT. He has previously held positions at Columbia University, the University of Michigan, and the Federal Reserve Bank of Boston.

TERRANCE ODEAN is an associate professor of Finance at the Haas School of Business at the University of California, Berkeley. He earned a B.A. in Statistics at UC Berkeley in 1990 and a Ph.D. in Finance from the university's Haas School of Business in 1997. He taught finance at UC Davis from 1997 through 2001. As an undergraduate at Berkeley, Odean studied Judgment and Decision Making with Daniel Kahneman. This led to his current research focus on how psychologically motivated decisions affect investor welfare and securities prices. During the summer of 1970, he drove a yellow cab in New York City.

TED O'DONOGHUE is an assistant professor of Economics at Cornell University. He earned a Ph.D. in Economics from University of California, Berkeley, in 1996, and spent one year as a postdoctoral fellow in the Center for Mathematical Studies in Economics and Management Sciences at Northwestern University before joining the Economics Department at Cornell. O'Donoghue's research in behavioral economics has been primarily on the topic of intertemporal choice. He has investigated the role that self-control problems might play in procrastination, addiction, (not) planning for retirement, and risky behavior among youths. He has also studied the implications of miscalculations of future utility.

MATTHEW RABIN is a professor of Economics at the University of California, Berkeley. He earned his B.S. in Mathematics and in Economics from the University of Wisconsin–Madison in 1984, and his Ph.D. in Economics from MIT in 1989. His research includes developing formal theoretical models of fairness and risk preferences, biases in predicting preferences, cognitive biases and inferential errors, and procrastination and other forms of self-control problems. He is a fellow of the Econometric Society, the American Academy of Arts and Sciences, and the MacArthur Foundation, and he was awarded the John Bates Clark Medal by the American Economic Association in 2001.

ALDO RUSTICHINI is a professor of Economics at the University of Minnesota. He has degrees in Philosophy, Economics, and Mathematics. His main activity has been in different branches: general equilibrium, growth theory, political theory, auction theory, decision theory, experimental economics and neuroscience. His

contributions include precise estimates of the rate of convergence to truth-telling equilibria in auctions, the importance of indeterminacy in dynamic general equilibrium models, the detrimental effect of social groups in growth, and the existence (and nonexistence) of competitive equilibria in economies with private information. In decision theory, Rustichini has developed a formal theory of unawareness, and an axiomatic theory of preference for flexibility with applications to temptation and self-control. He has done research in experimental economics: he has with Uri Gneezy started the analysis of the paradoxical effects of rewards and punishments. He has determined significant differences in the competitive behavior of women and men. He has analyzed the effects of moods and emotions on cooperative behavior. Rustichini has in the last years focused on the analysis of the brain as a Bayesian, optimizing, decision machine. He is associate editor of the *Journal of Economic Theory*, *Journal of Mathematical Economics*, *Review of Economic Dynamics*, and *Games and Economic Behavior*.

DAVID SCHMEIDLER'S research in recent years has dealt mainly with the informational aspects of decisions under uncertainty and belief representations. His other works are in the fields of cooperative and noncooperative games, classical functional analysis, and microeconomics. The latter includes works on topics of general equilibrium, implementation, and equity. He divides his time as professor at Tel Aviv University between Mathematics and Economics: specifically, he is affiliated with the Department of Statistics and Operations Research at the School of Mathematical Sciences, as well as the Faculty of Management. He is also a professor in the Department of Economics at Ohio State University. He wrote his Ph.D. thesis at the Institute of Mathematics of the Hebrew University in Jerusalem, Under the supervision of R. J. Aumann. It dealt with cooperative and noncooperative games and with general equilibrium.

KLAUS M. SCHMIDT has been professor of Economics at the University of Munich since 1995. He studied Economics and Political Science and completed his Ph.D. in Economics in a joint program of the University of Bonn and the London School of Economics in 1991. In 1995, he earned his Habilitation at the University of Bonn. He taught as a visiting professor at MIT and Stanford University. His research focuses on game theory, contract theory, and behavioral economics. In particular, he is interested in the impact of fairness and reciprocity on human behavior and on the optimal design of contracts and institutions. Schmidt serves as editor of the *European Economic Review* and as associate editor of the *Review of Economic Studies* and the *RAND Journal of Economics*. In 2001 he was awarded the Gossen-Prize of the German Economic Association and the Research Prize of the Berlin-Brandenburg Academy of Sciences.

ELDAR SHAFIR is a professor of Psychology and Public Affairs in the Department of Psychology and the Woodrow Wilson School of Public Affairs at Princeton University. He received his Ph.D. in Cognitive Science from the Massachusetts Institute of Technology in 1988, and was a postdoctoral scholar at Stanford University. He has held visiting positions at the University of Chicago Graduate

School of Business, the Kennedy School of Government, the Institute for Advanced Studies of the Hebrew University, and the Russell Sage Foundation. His research focuses on descriptive studies of decision making and their implications for economics and rationality. He received the Hillel Einhorn New Investigator Award from the Society for Judgment and Decision Making, and the Chase Memorial Award.

HERSH M. SHEFRIN is the Mario L. Belotti Professor of Finance at Santa Clara University. Shefrin earned his Ph.D. at the London School of Economics in 1974. Before joining Santa Clara, he taught at the University of Rochester. His work in behavioral economics and finance focuses on the manner in which self-control, prospect theory, regret, and heuristics impact financial decisions and financial judgments. In the 1980s, he focused on the impact of behavioral concepts on household savings behavior, the disposition effect (a term he coined to describe the disposition of investors to sell winners too early and hold losers too long), and the attractiveness of cash dividends to investors, despite tax disadvantages. In the 1990s he worked to develop behavioral theories of portfolio selection, asset pricing theory, and ethics. His work on behavioral portfolio theory was accorded the William F. Sharpe Award in 2000, and his work in behavioral ethics was accorded a Graham and Dodd Scroll in 1993. Shefrin's book *Beyond Greed and Fear: Understanding Behavioral Finance and the Psychology of Investing* (Harvard Business School Press, 1999, Oxford University Press, 2002) is the first comprehensive treatment of behavioral finance, written for both business students and financial practitioners. He edited a the three-volume collection, *Behavioral Finance* (Edward Elgar, 2002).

CHRIS STARMER is a professor of Experimental Economics at the University of Nottingham. Starmer was awarded a Ph.D. for an experimental investigation of decision under risk in 1992 from the University of East Anglia (UEA). He worked as a lecturer then senior lecturer at UEA and was visiting associate professor at Caltech before moving to Nottingham in 2000. His research in behavioral economics investigates decision making under risk, equilibrium selection in games, and dynamic decision making. One stream of this work with a public policy focus has involved appraising and developing approaches to the valuation of nonmarketed goods. He has published articles on these topics in *American Economic Review*, *Econometrica*, *Economic Journal*, *Economica*, *Journal of Economic Literature*, *Quarterly Journal of Economics*, and *Review of Economic Studies*. Starmer is currently Director of the Centre for Decision Research and Experimental Economics (CeDEx) at the University of Nottingham.

RICHARD H. THALER is the Robert P. Gwinn Professor of Economics, Finance, and Behavioral Science at the University of Chicago's Graduate School of Business, where he is the director of the Center for Decision Research. He is also a research associate at the National Bureau of Economic Research, where he codirects the behavioral economics project. Thaler is considered one of the pioneers in the attempt to fill the gap between psychology and economics. Among the problems he has

worked on are self control, savings, mental accounting, fairness, the endowment effect, and behavioral finance. He is the author of the books *The Winner's Curse* and *Quasi Rational Economics*, and is an editor of the collection *Advances in Behavioral Finance*. He writes a series of articles in the *Journal of Economic Perspectives* under the heading "Anomalies."

The late AMOS TVERSKY earned his Ph.D. in Psychology from the University of Michigan in 1964. At the time of his death in 1996, he was the Davis Brack Professor of Behavioral Sciences in the Department of Psychology at Stanford University. Previously he held professorships at the Hebrew University of Jerusalem and Harvard University. A fellow at the Center for Advanced Study in 1970, he was elected to the American Academy of Arts and Sciences in 1980 and the National Academy of Science in 1985. He also won (with Kahneman) the American Psychological Association's award for distinguished scientific contribution in 1982, and MacArthur and Guggenheim fellowships in 1984. He was awarded honorary doctorates by the University of Chicago, Yale University, the University of Goteborg in Sweden, and the State University of New York at Buffalo.

JANET YELLEN is currently the Eugene E. and Catherine M. Trefethen Professor of Business Administration at the Haas School of Business and Professor in the Department of Economics at the University of California, Berkeley. She served as the chair of the President's Council of Economic Advisors in the Clinton administration, and was a member of the Board of Governors of the Federal Reserve System from 1994 to 1997.

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P R E F A C E

THIS BOOK was conceived several years ago when the editors, along with Drazen Prelec and Dick Thaler, spent a year as a working group at the Center for Advanced Study in Behavioral Sciences (CASES). When we weren't playing volleyball or hiking, we spent a lot of time taking stock of our field, making lists of what the main contributions were, and idly speculating about the future. We also contemplated various group projects, such as coediting a *Handbook of Behavioral Economics*. But none of us wanted to commit the time and energy it would take to ride herd on a group of authors who regard procrastination as such a regular feature of human behavior that they would be unembarrassed to procrastinate themselves. So the idea of a book of readings emerged, and eventually evolved into a collection of recent, important papers in the field.

The title of this collection deliberately bears the word "Advances" because we omitted many classic articles (which, by the way, any serious student of behavioral economics should read; our introductory chapter is partly designed to be an annotated guide to these influential classics). Including all of the deserving classic articles and newer contributions in one volume just stretched coverage of either type of article too thin. Fortunately, the early classics are available in many other places, including Kahneman, Slovic, and Tversky *Judgment under Uncertainty: Heuristics and Biases* (1982) on judgment; Kahneman and Tversky *Choices, Values and Frames* (2001) on choice; Elster and Loewenstein, *Choice over Time* (1992) on intertemporal choice; and Thaler's essential *The Winner's Curse* (1992). More recent compilations include Gilovich, Kahneman, and Miller, *Heuristics of Judgment: Extensions and Applications* (2002) on judgment; and Loewenstein, Read, and Baumeister, *Time and Decision: Economic and Psychological Perspectives on Intertemporal Choice* (2003) on the latest thinking about intertemporal choice.

The fact that we had to make a hard choice, and leave so many worthy papers out of the volume—not only classics, but also current works—is a testament to the progress of the field. Twenty years ago, behavioral economics did not exist as a field. There were scattered works by authors such as Duesenberry, Galbraith, Katona, Leibenstein, and Scitovsky, which received attention, but the general attitude of the field toward psychology was one of hostility and skepticism. Many economists simply didn't think it was necessary to try to model psychological limits (since errors would be extinguished by market, advice, evolution, etc.), or that it was even possible to do so parsimoniously. The older two of us experienced this hostility first-hand, from faculty members during graduate school, and later even more extremely when we attempted to publish. In fact, until about 1990, it was not uncommon to get a paper returned from a journal (usually after a delay of about a year) with a three sentence referee report saying "this isn't economics." Fortunately, hostility switched to curiosity and acceptance rather rapidly and completely in the past few years.

How did we get here from there? A big part of the credit should go to the people to whom this book is dedicated. Kahneman and Tversky provided the raw materials

for much of behavioral economics—a new line of psychology, called behavioral decision research, that draws explicit contrasts between descriptively realistic accounts of judgment and choice and the assumptions and predictions of economics. Richard Thaler was the first economist to recognize the potential applications of this research to economics. His 1980 article “Toward a theory of consumer choice,” published in the first issue of the remarkably open-minded (for its time) *Journal of Economic Behavior and Organization*, is considered by many to be the first genuine article in modern behavioral economics. (Thaler’s 1999 article, which updates the earlier one and extends it, is included here in *Advances*.) Thaler’s “anomalies” column published in the *Journal of Economic Perspectives* was another critical element in getting people to pay attention to behavioral economics. The anomalies column helped to shift many economists from the attitude “if it works don’t try to fix it” to “it’s broken; how can we fix it?”

Needless to say, numerous other scholars played important roles, including the psychologists Ward Edwards, Hillel Einhorn, Baruch Fischhoff, Robin Hogarth, Ken Hammond, Sarah Lichtenstein, and Paul Slovic. Herb Simon—the only psychologist before Kahneman to win the Nobel prize in economics—coined the terms “bounded rationality” and “procedural rationality” and urged economists to model the implications of bounds and procedures.

Behavioral economics also flourished because it was encouraged and done early on by economists who were better-known for other kinds of work, including George Akerlof, Ken Arrow, Peter Diamond, Bob Shiller, Lawrence Summers, Sidney Winter, and Richard Zeckhauser. (Our apologies for omitting many other important contributors in these lists. Can we plead guilty to “availability” bias?)

All these scientists played important roles in the advancement of behavioral economics. Our dedication includes one other person who played an unusual and vital role—Eric Wanner, the president of the Russell Sage Foundation. Wanner was first exposed to behavioral economics in the mid-1980s as a program officer at the Sloan Foundation. Sloan sponsored a small conference on psychology and economics that was attended by two of us (Camerer and Loewenstein) Kahneman, Tversky, Thaler, and others. While Sloan did not bet heavily on the emerging field, Wanner did make a big bet after taking the job of president of the Russell Sage Foundation (RSF).

RSF’s official charge is to fund social science research to help the poor. Wanner, an accomplished cognitive psychologist early in his career, felt that rational-choice economics provided a limited scientific language in which to talk about sources of poverty and about policy solutions. He saw in behavioral economics the chance for a small foundation to have a big impact in social science and to broaden the language of economics to say more about poverty. He funded research in behavioral economics and invited many behavioral economists to the foundation as fellows in residence, including two of us (Camerer and Loewenstein).

A brilliant RSF investment was a series of biannual “summer camps,” started in 1994 to teach behavioral economics to advanced graduate students in economics and other social sciences. Like other summer camps in economics, these have been hugely effective in conveying a body of knowledge that campers could not get in

Ph.D. courses at their home schools, until recently. The rosters of guest speakers and camper alumni are both impressive indeed. The camps have also sharpened our own thinking, and created a social network of students from around the world.

The most recent program of RSF's support for behavioral economics has been the copublication, with Princeton University Press, of a Behavioral Economics Roundtable Series. This book is the second of many planned volumes in that series. The field is progressing so rapidly that an advanced *Advances* is not far away.

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