

# BURKHARD C. SCHIPPER

University of California, Davis • Department of Economics • One Shields Avenue • Davis • CA 95616 • USA  
Tel: +1-530-752 0741 • Fax: +1-530-752 9382 • Skype: burkhard.schipper  
Email: bcschipper@ucdavis.edu • Web: <http://www.econ.ucdavis.edu/faculty/schipper/>

Date of Birth: September 4, 1973 • Place of Birth: Dresden, (East-)Germany • Citizenship: German • U.S. Permanent Resident

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## ACADEMIC POSITIONS

2015 - present Professor, University of California, Davis, Department of Economics  
2011 - 2015 Associate Professor, University of California, Davis, Department of Economics  
2011 - 2012 Visiting Scholar, New York University, Stern School of Business  
2005 - 2011 Assistant Professor, University of California, Davis, Department of Economics  
2009 - present Faculty Member, UC Davis Graduate Group in Applied Mathematics  
2003 - 2005 Post-Doctoral Research Fellow, University of Bonn, Department of Economics, DFG SFB/TR 15 (German National Science Foundation)

## EDUCATION AND DEGREES

2000 - July 2003 Dr. rer. pol., Economics, University of Bonn, European Doctoral Program (EDP)  
2001 - 2002 Visiting doctoral student of economics, Tel Aviv University, European Doctoral Program (EDP)  
1998 - 2000 Diplom-Volkswirt, University of Bonn  
1995 Visiting student of management and economics, University of St. Gallen  
1992 - 1994 Vordiplom Betriebswirtschaftslehre, Dresden University of Technology

## BUSINESS EXPERIENCE

1997 - 98 Director, Jacky Maeder (Malaysia) Sdn. Bhd., Kuala Lumpur, Malaysia  
1996 - 97 Representative, Jacky Maeder (China) Ltd., Beijing, The Peoples Republic of China  
1995 - 96 Management Trainee, Jacky Maeder (Hong Kong) Ltd., Hong Kong

## FIELDS OF INTEREST

Game Theory, Microeconomic Theory, Experimental Economics, Bounded Rationality

## TEACHING

Graduates: Microeconomic Theory (1<sup>st</sup> year PhD, annually)

## BURKHARD C. SCHIPPER

Game Theory (2nd year PhD students in economics, mathematics and computer science), UC Davis (annually)  
Math Camp (Incoming PhD students, annually)  
Seminar on Economic Theory, UC Davis (annually)  
Minicourse on Unawareness, University of Arizona, 2007, Maastricht University, 2015  
Reading course on Behavioral Economics, University of Bonn, 2005  
Reading course on Incomplete Contracts, University of Bonn, 2005

Undergraduates: Game Theory, UC Davis (annually)  
Intermediate Microeconomics, UC Davis (annually)  
Reading course on Neuroeconomics, University of Bonn, 2004  
Problem sets in Game Theory, University of Bonn, 2003

### PUBLICATIONS IN REFEREED JOURNALS

[Sex Hormones and Competitive Bidding](#), *Management Science* 61 (2015), 249-266.

[Speculative Trade under Unawareness – The Infinite Case](#) (with Martin Meier), *Economic Theory Bulletin* 2 (2014), 147-160.

[Unawareness – A Gentle Introduction to both the Literature and the Special Issue](#), *Mathematical Social Sciences* 70 (2014), 1-9.

[Preference-Based Unawareness](#), *Mathematical Social Sciences* 70 (2014), 34-41.

[Bayesian Games with Unawareness and Unawareness Perfection](#) (with Martin Meier), *Economic Theory* 56 (2014), 219-249.

[When is Tit-For-Tat Unbeatable](#) (with Peter Duersch and Jörg Oechssler), *International Journal of Game Theory* 43 (2014), 25-36.

[Dynamic Unawareness and Rationalizable Behavior](#) (with Aviad Heifetz and Martin Meier), *Games and Economic Behavior* 81 (2013), 50-68.

[Menstrual Cycle and Competitive Bidding](#) (with Matthew Pearson), *Games and Economic Behavior* 78 (2013), 1-20.

[Unawareness, Beliefs, and Speculative Trade](#) (with Aviad Heifetz and Martin Meier), *Games and Economic Behavior* 77 (2013), 100-121.

[Awareness-Dependent Subjective Expected Utility](#), *International Journal of Game Theory* 42 (2013), 725-753.

[Unbeatable Imitation](#) (with Peter Duersch and Jörg Oechssler), *Games and Economic Behavior* 76 (2012), 88-96.

[The Visible Hand: Finger Ratio \(2D:4D\) and Competitive Bidding](#) (with Matthew Pearson), *Experimental Economics* 15 (2012), 510-529.

[Pure Strategy Equilibria in Symmetric Two-Player Zero-Sum Games](#) (with Peter Duersch and Jörg Oechssler), *International Journal of Game Theory* 41 (2012), 553-564.

[Two Models of Unawareness: Comparing the Object-Based and Subjective-State-Space Approaches](#) (with Oliver Board and Kim-Sau Chung), *Synthese* 179 (2011), 13-34.

[Rage Against Machines – How Subjects Play Against Learning Algorithms](#) (with Peter Duersch, Albert Kolb, and Jörg Oechssler), *Economic Theory* 43 (2010), 407-430.

[Incentives for Subjects in Internet Experiments](#) (Peter Duersch and Jörg Oechssler), *Economics Letters* 105 (2009), 120-122.

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[Imitators and Optimizers in Cournot Oligopoly](#), *Journal of Economic Dynamics and Control* 33 (2009), 1981-1990.  
[Cournot Competition among Teams – An Experimental Study](#) (with Philippe Raab), *Journal of Economic Behavior and Organization* 72 (2009), 691-702.

[Ambiguity and Social Interaction](#) (with Jürgen Eichberger and David Kelsey), *Oxford Economic Papers* 61 (2009), 355-379.

[A Canonical Model for Interactive Unawareness](#) (with Aviad Heifetz and Martin Meier), *Games and Economic Behavior* 62 (2008), 304-324.

[Granny versus Game Theorist – Ambiguity in Experimental Games](#) (with Jürgen Eichberger and David Kelsey), *Theory and Decision* 64 (2008), 333-362.

[On an Evolutionary Foundation of Neuroeconomics](#), *Economics and Philosophy* 24 (2008), 495-513.

[Interactive Unawareness](#) (with Aviad Heifetz and Martin Meier), *Journal of Economic Theory* 130 (2006), 78-94.

[Submodularity and the Evolution of Walrasian Behavior](#), *International Journal of Game Theory* 32 (2003), 471-477.

[Can You Guess the Game You're Playing?](#) (with Jörg Oechssler), *Games and Economic Behavior* 43 (2003), 137-152.

### PUBLICATIONS IN REFEREED VOLUMES, PROCEEDINGS, AND WORKSHOPS

Awareness, in: *Handbook of Epistemic Logics*, Chapter 3, Hans van Ditmarsch, Joseph Y. Halpern, Wiebe van der Hoek, and Barteld P. Kooi (Eds.), College Publications, London, 2015, 77-146.

[Ghostbusting Facebook: Detecting and Characterizing Phantom Profiles in Online Social Gaming Applications](#) (with Atif Nazir, Saqip Raza and Chen-Nee Chuah), in: *3<sup>rd</sup> Workshop on Online Social Networks (WOSN 2010)*, USENIX.

Unawareness, Beliefs and Games (with Aviad Heifetz and Martin Meier), in: *Theoretical Aspects of Rationality and Knowledge, Proceedings of the 11<sup>th</sup> Conference (TARK 2007)*, Dov Samet (Ed.), Presses Universitaires De Louvain, 183-192.

A Canonical Model for Interactive Unawareness (with Aviad Heifetz and Martin Meier), in: *Theoretical Aspects of Rationality and Knowledge, Proceedings of the 11<sup>th</sup> Conference (TARK 2007)*, Dov Samet (Ed.), Presses Universitaires De Louvain, 177-182.

Granny versus Game Theorist – Ambiguity in Experimental Games (with Jürgen Eichberger and David Kelsey), in: *Advances in Decision Making under Risk and Uncertainty*, Mohammed Abdellaboui and John D. Hey (Eds.), Springer Verlag, 2008, 183-204.

Multi-Person Unawareness (with Aviad Heifetz and Martin Meier), in: *Theoretical Aspects of Rationality and Knowledge, Proceedings of the Ninth Conference (TARK 2003)*, Moshe Tennenholtz (Ed.), ACM, 145-158.

### BOOK REVIEWS

[Game Theory: 5 Questions, edited by V.F. Hendricks and P.G. Hansen](#), *Journal of Economic Behavior and Organization* 67, 541-544.

### EDITED BOOKS

[TARK 2013 Proceedings of the 14th Conference on Theoretical Aspects of Rationality and Knowledge](#), Chennai - India, 2013, 249 pages, ISBN 978-0-615-74716-3.

# BURKHARD C. SCHIPPER

## **WORKING PAPERS** (some available at <http://www.econ.ucdavis.edu/faculty/schipper/>)

Network Formation in a Society with Fragmented Knowledge and Awareness  
Comprehensive Rationalizability (with Aviad Heifetz and Martin Meier)  
A Note on States and Acts in Theories of Decision under Uncertainty  
Does Exposure to Unawareness Affect Risk Preferences? A Preliminary Result (with Wenjun Ma)  
Strategic Teaching and Learning in Games  
Political Awareness, Microtargeting of Voters, and Negative Electoral Campaigning (with Hee Yeul Woo)  
Prudent Rationalizability in Generalized Extensive-Form Games (with Aviad Heifetz and Martin Meier)  
Conditional Dominance in Games with Unawareness (with Martin Meier)  
Sex Hormones and Choice under Risk  
Strategic Control of Myopic Best Reply in Repeated Games  
How Mindless is Standard Economics Really?  
The Evolutionary Stability of Optimism, Pessimism and Complete Ignorance

## **RESEARCH IN PROGRESS** (some drafts available on request)

Indescribable Contingencies versus Unawareness in Incomplete Contracting (with Wenjun Ma)  
Optimal Discovery of Novelties  
Bid-Ask Spreads and Financial Innovations under “Unknown Unknowns”  
Self-Confirming Games: Unawareness, Discovery, and Equilibrium  
Repeated Bilateral Contracting under Unawareness (with Ryuichiro Ishikawa)

## **CONFERENCE ORGANIZATION**

2015	TARK – Theoretical Aspects of Rationality and Knowledge, Carnegie Mellon University, Member of the program committee
2014	LOFT – Logic and the Foundations of Game and Decision Theory, Bergen, Member of the program committee
2013	TARK – Theoretical Aspects of Rationality and Knowledge, Chennai, India, Program chair
2010	LOFT – Logic and the Foundations of Game and Decision Theory, Toulouse, Member of the program committee LRBA – Logic for Resource-Bounded Agents, Lyon, Member of the program committee

## BURKHARD C. SCHIPPER

- 2009 Workshop on Neuroeconomics and Endocrinological Economics, UC Davis, Organizer  
TARK – Theoretical Aspects of Rationality and Knowledge, Stanford University, Member of the program committee
- 2007 TARK – Theoretical Aspects of Rationality and Knowledge, Brussels, Member of the program committee
- 2006 Workshop on Unawareness, Stanford University, Co-organizer

### CONFERENCE PRESENTATIONS

- 2016 5. World Congress of the Game Theory Society GAMES 2016, Maastricht  
Bay Area Behavioral and Experimental Economics Workshop, UC Berkeley  
5th CSLI Workshop on Logic, Rationality, and Intelligent Interaction, Stanford University (*invited*)  
LOFT – Logic and Foundation of Game Theory, Maastricht (*invited plenary speaker*)  
Logics for Social Behavior, ETH Zurich (*invited plenary speaker*)
- 2015 Workshop on Limited Reasoning and Cognition, Barcelona (*invited*)  
SAET – Society for the Advancement of Economic Theory, Cambridge
- 2014 Workshop on “Decision-Making in a World of Incomplete and Evolving Knowledge” Max-Planck Institute for the Mathematics in the Sciences, Leipzig/Germany (*invited*)  
International Workshop on Unawareness, University of Queensland (*invited*)
- 2013 4. WISE International Workshop in Experimental Economics, Xiamen, *Keynote speaker*  
SAET – Society for the Advancement of Economic Theory, Paris  
TARK 2013 – 14<sup>th</sup> Conference on Theoretical Aspects of Rationality and Knowledge, Chennai/India
- 2012 4. World Congress of the Game Theory Society GAMES 2012, Istanbul/Turkey  
Workshop on “New Formal Theory in the Management and Strategy Sciences – Unawareness, the Evolution of Belief, and Shaping New Business Environments”, Max Planck Institute for the Mathematics in the Sciences, Leipzig/Germany (*invited*)
- 2011 Economic Science Association Meeting, Tucson/Arizona  
Conference on “Unawareness: Conceptualizing and Modeling”, Johns Hopkins University (*invited*)  
International Conference on Game Theory at SUNY, Stony Brook, New York  
Conference on “New Challenges for Economic Decision-making: Biology, Neuroscience and Economic Models”, University of Southern California, Los Angeles (*invited*)
- 2010 MOVE Workshop on Gender Differences in Competitiveness and Risk Taking, Barcelona/Spain  
ESWC – Econometric Society World Congress, Shanghai/PRC  
LOFT – Logic and Foundation of Game Theory, Toulouse/France  
Midwest Economic Theory Conference, Evanston/USA
- 2009 6. Weihnachtstreffen Deutscher Ökonomen im Ausland, Heidelberg/Germany  
Workshop on Neuroeconomics and Endocrinological Economics, UC Davis  
Workshop on Information Processing, Belief Change, and Social Interaction, Dagstuhl/Germany  
International Conference on Game Theory at SUNY, Stony Brook, New York/USA
- 2008 Workshop on Players with Limited Cognitive and Inferential Abilities, Tsukuba/Japan (*invited*)  
World Congress of the Game Theory Society, Evanston/USA  
LOFT – Logic and Foundation of Game Theory, Amsterdam/Netherlands
- 2007 NBER Conference on General Equilibrium and Mathematical Economics, Evanston/USA  
ESEM – Econometric Society European Meeting, Budapest/Hungary  
International Conference on Game Theory at SUNY, Stony Brook, New York/USA  
TARK 11 – Theoretical Aspects of Rationality and Knowledge, Brussels/Belgium

## BURKHARD C. SCHIPPER

- SAET – Society for the Advancement of Economic Theory, Kos/Greece
- 2006 LAMES – Latin American Meeting of the Econometric Society, Mexico City  
ASIAN DC – Asian Decentralization Conference, Tsukuba/Japan (*invited*)  
LOFT – Logic and Foundation of Game Theory, Liverpool/UK  
NASEM – North American Summer Meeting of the Econometric Society, Minneapolis/USA  
Workshop on Unawareness, Stanford University/USA
- 2005 ESA - Economic Science Association North America Regional Meeting, Tucson/USA  
ESWC – Econometric Society World Congress, London/UK  
SAET – Society for the Advancement of Economic Theory, Vigo/Spain  
SFB/TR 15 Conference Caputh/Germany
- 2004 ECCE - 1<sup>st</sup> European Conference on Cognitive Economics, Paris/France  
EEA - Annual Congress of the European Economic Association, Madrid/Spain  
World Congress of the Game Theory Society, Marseille/France  
FUR XI - 11<sup>th</sup> International Conference on the Foundations and Applications of Utility, Risk and Decision Making, Paris/France
- 2003 EDP Jamboree, Universitat Pompeu Fabra, Barcelona/Spain  
ESEM - Econometric Society European Meeting, Stockholm/Sweden  
EEA - Annual Congress of the European Economic Association, Stockholm/Sweden  
International Conference on Game Theory at SUNY, Stony Brook, New York/USA  
NASEM - North American Summer Meeting of the Econometric Society, Northwestern University, Evanston/USA  
TARK 9 - Theoretical Aspects of Rationality and Knowledge, Indiana University, Bloomington/USA
- 2002 Econometric Society European Winter Meeting, Budapest/Hungary (*invited*)  
EDP Jamboree, London School of Economics, London/U.K.  
ESEM - Econometric Society European Meeting, Venice/Italy  
ICM - International Congress of Mathematicians, Satellite Conference on Game Theory, Qingdao/P.R. China  
International Conference on Game Theory at SUNY, Stony Brook, New York/USA  
EDP Jamboree, HEC Paris/France
- 2001 EEA – Annual Congress of the European Economic Association, Lausanne/Switzerland  
FEMES - Far Eastern Econometric Society Meeting, Kobe/Japan  
Italian Meeting on Game Theory and Applications, Ischia/Italy  
WEHIA - Workshop on Economics with Heterogeneous Interacting Agents, Maastricht/Netherlands

### SEMINAR PRESENTATIONS

- 2017 University of Toronto (scheduled)
- 2015 Maastricht University, Neuroeconomics program  
Maastricht University, Department of Economics  
Virginia Tech, Department of Economics
- 2014 Max-Planck Institute for the Mathematics in the Sciences, Leipzig  
ESMT / Wissenschaftszentrum (WZB), Berlin  
University of Heidelberg, Department of Economics  
University of Wisconsin-Madison, Department of Economics  
University of California, Los Angeles, Department of Economics
- 2013 Queen's University, Ontario, Department of Economics  
University of Texas, Austin, Department of Economics  
University of Southern California, Department of Economics

## BURKHARD C. SCHIPPER

2012	New York University, Stern School of Business University of Bonn, Center for Economics and Neuroscience
2011	New York University, Department of Economics University of Heidelberg, Department of Economics Hong Kong University of Science and Technology, Department of Economics
2010	California Polytechnic State University, San Luis Obispo Max-Planck Institute for Mathematics in the Sciences, Leipzig University of Oregon, Department of Economics University of California, San Diego, Department of Economics
2008	California Institute of Technology University of Southern California, Department of Economics University of California, Davis, Department of Computer Science University of Pittsburgh, Department of Economics University of Maryland, Department of Economics
2007	University of Arizona, Department of Economics University of California, Los Angeles, Department of Economics
2005	University of California at Berkeley, Department of Economics University of California, Davis, Department of Economics Rice University, Department of Economics
2004	University of Bonn, Department of Economics Hebrew University of Jerusalem, Economic Theory Seminar The Open University of Israel, Raanana University of Pittsburgh, Department of Economics Tilburg University, CentER
2003	University of Münster, Department of Economics University of Heidelberg, Alfred-Weber Institut University College London, Center for Economic Learning and Social Evolution (ELSE)
2002	University of Bonn, Bonn Graduate School of Economics Peking University, China Center for Economic Research (CCER) Tel Aviv University, School of Economics
2000	Tel Aviv University, School of Economics University of Bonn, Bonn Graduate School of Economics

### AWARDS AND GRANTS

2015	UC Davis Academic Senate Grant Large
2014, 2015	<i>American Economic Review</i> Excellence in Refereeing Award
2013, 2015	<i>Games and Economic Behavior</i> , Certificate of Outstanding Contribution in Reviewing
2011 - 14 2011	U.S. National Science Foundation Grant, US\$ 188,532 Economic Journal Referee Prize
2009 - 2010 2009	UC Davis Hellman Fellowship Outstanding Referee Award – Journal of Economic Dynamics and Control

## BURKHARD C. SCHIPPER

- 2007 - 2010 U.S. National Science Foundation Grant, US\$ 137,775  
2007 Black Box Committee Award, Graduate Students of Economics, UC Davis
- 2006-14, 16 Small Grant in Aid of Research, University of California, Davis (annually)
- 2005-2008 Junior Faculty Research Award, Institute for Governmental Affairs, University of California, Davis (annually)
- 2004 Short Term Research Grant for research visit to Israel, Minerva Stiftung, Max-Planck Society  
Invited participant, 1<sup>st</sup> Meeting of the Winners of the Bank of Sweden Prize in Economic Sciences in Memory of Alfred Nobel, Lindau/Germany
- 2003 Young Economist Award of the European Economic Association (EEA)
- 2003 - 2005 Post-doctoral fellowship by the DFG (German National Science Foundation)
- 2001 - 2002 Visiting doctoral student scholarship by the DAAD (German Academic Exchange Service)  
2000 - 01, 02 - 03 Doctoral student scholarships by the DFG

Various travel grants by the DFG, the European Economic Association, The Econometric Society, Verein für Socialpolitik (Deutsche Bundesbank, Swiss National Bank), The Review of Economic Studies Travel Fund, Tel Aviv University, NASSLLI, and the University of California, Davis

### UNIVERSITY AND DEPARTMENT SERVICE

- 2016 – present Member of Rules & Jurisdiction Committee, Division of Letters & Sciences, UC Davis  
2016 – present Member of the Graduate Studies Committee, Department of Economics, UC Davis  
2012 – 2015 Member of the Arts & Lectures Administrative Advisory Committee, UC Davis  
2010 – 2011 Chair of the Department PR/Website Committee  
2010 – 2011 Member of the Recruitment Committee  
2009 – 2010 Chair of the Department Facilities Committee  
2008 – 2009 Chair of the Department PR/Website Committee  
2008 – 2012 Member of the Department PR/Website Committee  
2007 – present Department Representative to the College of Letters & Science Assembly  
2009 – 2012 Undergraduate Advisor  
2005- 2007 Undergraduate Advisor

### GRADUATE STUDENTS

Member of the committee:

- Kyungwon Rho - Deputy Director, Ministry of Education, Science and Technology of Korea  
Dae Hwan Kim – Korean Insurance Research Institute  
Jason Lepore – Assistant Professor, California Polytechnic State University, San Luis Obispo, CA, 2007  
David Ong – Assistant Professor, HSBC School of Business, Peking University, Shenzhen, P.R. China, 2010  
Matthew Pearson – Ashenfelter & Ashmore, Princeton, N.J., 2010  
Ronaldo Carpio – Assistant Professor, University of International Business and Economics, Beijing, P.R. China, 2012  
Hao Yu (Max) -- Assistant Professor, Peking University, Beijing, P.R. China, 2013  
Samuel Johnson (Computer Science)  
Andrew Smith (Computer Science)

Dissertation chair:

- Jeffrey Graham – OnPoint Analytics, Emeryville, CA, 2010  
Hee Yeul Woo – Lecturer, California State University East Bay, 2015  
Ma Wenjun – Assistant Professor, Shenzhen University, Shenzhen, P.R. China, 2015  
Li Yingxue

# BURKHARD C. SCHIPPER

## PROFESSIONAL MEMBERSHIPS

American Economic Association, Econometric Society, Economic Science Association, Game Theory Society, Verein für Socialpolitik

## EDITORIAL BOARDS

2013 – present Editor-in-chief, [The B.E. Journal of Theoretical Economics](#)  
2011 – present Associate editor, [Mathematical Social Sciences](#)  
2007 – 2012 Associate editor, [Knowledge, Rationality and Action – Special Section of Synthese](#)

## REFEREEING

Adaptive Human Behavior and Physiology, American Economic Review (11), Annals of Operations Research (2), Artificial Intelligence, Automatica, B.E. Journal of Theoretical Economics (6), Biology Letters, Cambridge University Press, Decisions in Economics and Finance (2), Econometrica (8), Economic Inquiry, Economic Journal (2), Economic Theory (10), Economic Theory Bulletin (5), Economics Bulletin, Economics Letters, Experimental Economics (7), GAMES (2), Games and Economic Behavior (36), German Economic Review, Hungarian National Research, Development and Innovation Office, International Economic Review (2), International Journal of Game Theory (6), International Review of Game Theory (2), Journal of Behavioral and Experimental Economics, Journal of Economic Behavior and Organization (10), Journal of Economic Dynamics and Control (7), Journal of Economic Psychology, Journal of Economic Theory (12), Journal of the European Economic Association (2), Journal of Industrial Economics, Journal of Institutional and Theoretical Economics, Journal of Mathematical Economics (2), Journal of Peace Research, Journal of Philosophical Logic (2), Journal of Political Economy, Journal of Public Economic Theory, Latin American Journal of Economics - Cuadernos de Economia, Manufacturing & Service Operations Management (2), Mathematical Social Science (16), National Science Foundation (3), National Science Foundation Review Panel, PLoS One (2), Proceedings of the National Academy of Sciences (editor of an article), Rand Journal of Economics (2), Review of Economic Studies (2), Social Sciences and Humanities Research Council of Canada (2), Springer Lecture Notes in Computer Science, Studia Logica, Synthese (4), Texts in Logic and Games – Amsterdam University Press, Theoretical Economics (9), Theory and Decision (6)