

# BURKHARD C. SCHIPPER

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

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## ACADEMIC POSITIONS

- 2011 - now 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 - now 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

## WORKING 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

Microeconomic Theory, Game Theory, Experimental Economics, Bounded Rationality

## TEACHING

- Graduates: Game Theory (Second year PhD students in economics, mathematics and computer science), UC Davis (annually)  
Seminar on Economic Theory, UC Davis (annually)

## BURKHARD C. SCHIPPER

Minicourse on Unawareness, University of Arizona, 2007  
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

### JOURNAL PUBLICATIONS

Menstrual Cycle and Competitive Bidding (with Matthew Pearson), *Games and Economic Behavior*, accepted subject to minor revision.

Unbeatable Imitation (with Peter Duersch and Jörg Oechssler), *Games and Economic Behavior*, forthcoming.

[Awareness-Dependent Subjective Expected Utility](#), *International Journal of Game Theory*, forthcoming.

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

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

[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.

[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.

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## PUBLICATIONS IN REFEREED PROCEEDINGS & WORKSHOPS

[Ghostbusting Facebook: Detecting and Characterizing Phantom Profiles in Online Social Gaming Applications](#) (with Atif Nazir, Saqib 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.

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

Dynamic Unawareness and Rationalizable Behavior (with Aviad Heifetz and Martin Meier)

Prudent Rationalizability in Generalized Extensive-Form Games (with Aviad Heifetz and Martin Meier)

Conditional Dominance in Games with Unawareness (with Martin Meier)

Unawareness, Beliefs, and Speculative Trade (with Aviad Heifetz and Martin Meier)

Bayesian Games with Unawareness and Unawareness Perfection (with Martin Meier)

Speculation Trade under Unawareness – The Infinite Case (with Martin Meier)

Preference-Based Unawareness

Political Awareness and Microtargeting of Voters in Electoral Competition (with Hee Yeul Woo)

Once Beaten, Never Again: Imitation in Two-Player Potential Games (with Peter Duersch and Jörg Oechssler)

Sex Hormones and Choice under Risk

Sex Hormones and Competitive Bidding

How Mindless is Standard Economics Really?

Strategic Control of Myopic Best Reply in Repeated Games

The Evolutionary Stability of Optimism, Pessimism and Complete Ignorance

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

Incomplete Contracts under Unawareness  
Implementation with Relative Payoff Concerns (with Adib Bagh)  
Targeted Advertisement (with Hee Yeul Woo)  
Evolution of Foresight and Strategic Teaching (with Charlie Brumitt)  
Malicious Accounts in Online Social Networks: Theory and Empirical Evidence from Facebook (with Chen-Nee, Yan Chen, Chuah, Atif Nazir, and Saqip Raza)  
Decisions under Unawareness  
Designer Babies – Artificial Selection and Evolution  
Comprehensive Rationalizability (with Aviad Heifetz and Martin Meier)  
Interactive Decision Theory with Choquet Expected Utility Players (with Amanda Friedenberg)  
Standard Contracts

## CONFERENCE ORGANIZATION

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

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

2012 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

## BURKHARD C. SCHIPPER

- 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  
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

- 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  
Hong Kong University of Science and Technology, Department of Economics

## BURKHARD C. SCHIPPER

- 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

- 2011 - 14 U.S. National Science Foundation Grant, US\$ 188,532
- 2011 Small Grant in Aid of Research, University of California, Davis  
Economic Journal Referee Prize
- 2010 Small Grant in Aid of Research, University of California, Davis
- 2009 - 10 UC Davis Hellman Fellowship
- 2009 Small Grant in Aid of Research, University of California, Davis  
Outstanding Referee Award – Journal of Economic Dynamics and Control
- 2008 Small Grant in Aid of Research, University of California, Davis  
Junior Faculty Research Award, Institute for Governmental Affairs, University of California, Davis
- 2007 - 10 U.S. National Science Foundation Grant, US\$ 137,775
- 2007 Small Grant in Aid of Research, University of California, Davis  
Junior Faculty Research Award, Institute for Governmental Affairs, University of California, Davis  
Black Box Committee Award, Graduate Students of Economics, UC Davis

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- 2006 Small Grant in Aid of Research, University of California, Davis  
Junior Faculty Research Award, Institute for Governmental Affairs, University of California, Davis
- 2005 Junior Faculty Research Award, Institute for Governmental Affairs, University of California, Davis
- 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 - 05 Post-doctoral fellowship by the DFG (German National Science Foundation)
- 2001 - 02 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

- 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 – now Member of the Department PR/Website Committee  
2007 - now Department Representative to the College of Letters & Science Assembly  
2009 – now 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  
Amanda Kimball  
Ronaldo Carpio  
Hao Yu (Max)

Dissertation chair:

- Jeffrey Graham – OnPoint Analytics, Emeryville, CA, 2010  
Hee Yeul Woo  
Wen Junma  
Li Yingxue

### PROFESSIONAL MEMBERSHIPS

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

# BURKHARD C. SCHIPPER

## MEMBER OF THE EDITORIAL BOARD

2011 – now     [Mathematical Social Sciences](#)  
2007 – 2012   [Knowledge, Rationality and Action – Special Section of Synthese](#)

## REFEREEING

American Economic Review (5), Automatica, B.E. Journal of Theoretical Economics (3), Cambridge University Press, Decisions in Economics and Finance (2), Econometrica (5), Economic Journal (2), Economic Theory (4), Economics Bulletin, Experimental Economics (5), GAMES (2), Games and Economic Behavior (17), International Economic Review (2), International Journal of Game Theory (3), International Review of Game Theory (2), Journal of Economic Behavior and Organization (8), Journal of Economic Dynamics and Control (5), Journal of Economic Theory (7), Journal of the European Economic Association (2), Journal of Mathematical Economics, 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 (4), 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, Social Sciences and Humanities Research Council of Canada, Studia Logica, Synthese (2), Texts in Logic and Games – Amsterdam University Press, Theoretical Economics (5), Theory and Decision (6)

## REFERENCES

Upon request