

## CURRICULUM VITAE

September 1, 2014

Name: Akira Okada  
Date of Birth: March 4, 1954  
Place of Birth: Shingu, Japan  
Nationality: Japanese  
Marital status: married with one child

Address: Graduate School of Economics  
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Education:  
Tokyo Institute of Technology , B.S. Mathematics, 1977  
Tokyo Institute of Technology, M.S. Systems Science, 1979  
Tokyo Institute of Technology, Ph. D., 1982  
Thesis: "Strictly Perfect Equilibrium Points in Non-cooperative Games" (Advisor: Professor Mitsuo Suzuki)

Research interests: Game theory, Bargaining theory, Coalition formation  
Cooperation and conflict, Experimental economics

Academic positions:  
Assistant Professor  
Department of Information Sciences, Tokyo Institute of  
Technology, 1982 - 1989  
  
Associate Professor  
Graduate School of Policy Science, Saitama University,  
1989 - 1991  
  
Associate Professor  
Institute of Economic Research, Kyoto University, 1991 -1996  
  
Professor  
Institute of Economic Research, Kyoto University, 1996-2004  
  
Professor  
Graduate School of Economics, Hitotsubashi University  
2004-presnt

Other positions:

Visiting scholar  
Department of Managerial Economics and Decision Sciences  
Northwestern University  
July-August 1984, April 1986-March 1987

Research fellow  
Center for Interdisciplinary Research (ZiF), University of  
Bielefeld  
October 1987-August 1988

Visiting scholar  
Department of Economics, University of Bonn  
May 1993-June 1993

Visiting professor  
Institute of Advanced Studies, Vienna  
May 1996-July 1996

Lecturer  
The Frankfurt School of Finance and Management  
Frankfurt am Main, Germany  
July 2012

Lecturer  
Summer School of the International Max Planck Research on  
adapting behavior in a fundamentally uncertain world  
(IMPRS Uncertainty), Jena, Germany  
July 2012

Professional activities:

Reviewer, Mathematical Reviews (1986-present)  
Associate editor, Mathematical Social Sciences (1990-1993)  
Associate editor, International Journal of Game Theory  
(1994-2000)  
Co-Editor, Japanese Economic Review (1997-2003)  
Editor, Japanese Economic Review (2003-2009)  
Editor, Hitotsubashi Journal of Economics (2012)  
Associate editor, International Journal of Economic Theory,  
(2005-present)

Membership: Game Theory Society (Charter members), Econometric Society,  
American Economic Association, Japanese Economic  
Association, The Operations Research Society of Japan

Awards: Nakahara Prize, Japanese Economic Association, 1999

Research Grants:

Ministry of Education of Japan, Grant-in-Aid for

Encouragement of Young Scientist, No. 59730002 and  
No. 60730005, 1984-1985

The Murata Science Foundation, No. 911202, 1991

The Research Foundation for Japanese Economy, 1991

Ministry of Education of Japan, Grant-in-Aid for Scientific  
Research, No. 04832029, 1992

Ministry of Education , Grant-in-Aid for Scientific Research,  
No. 05630007 and No. 06630005, 1993-1994

The Inamori Science Foundation, 1993-1994

The Nomura Science Foundation, 1993-1994

Ministry of Education , Grant-in-Aid for Scientific Research,  
No. 07630012, 1995-1996

The Zengin Foundation for Studies on Economics and Finance,  
1997

Asahi Glass Foundation, 1998-1999

Ministry of Education , Grant-in-Aid for Scientific Research,  
No. (C)10630006, 1998-2000

Ministry of Education , Grant-in-Aid for Scientific Research,  
No. (C)13630009, 2001-2003

The Matsushita International Foundation, 2003-2004

The Sumitomo Foundation, 2003-2005

The Japan Society for the Promotion of Science,  
No. (A)16203011, 2004-2007

The Japan Society for the Promotion of Science,  
No. (S)20223001, 2008-2012

## List of Publications

### Published Papers:

1. "A Note on the Existence of a Continuous Utility Function" (with Shin Ishikawa and Kenjiro Nakamura), *Keio Economic Studies* 16, 1979, 53-56.
2. "On Stability of Perfect Equilibrium Points," *International Journal of Game Theory* 10, 1981, 67-73.
3. "A Note on the Perfectness Concept and the Information Structures of Games," *International Journal of Game Theory* 10, 1981, 133-136.
4. "Information Exchange between Duopolistic Firms," *Journal of Operations Research Society of Japan* 25, 1982, 58-76.
5. "Coalition Formation of Oligopolistic Firms for Information Exchange," *Mathematical Social Sciences* 6, 1983, 337-352.
6. "Strictly Perfect Equilibrium Points of Bimatrix Games," *International Journal of Game Theory* 13, 1984, 145-154.
7. "Strongly Stable Equilibrium Points of N-Person Noncooperative Games," (with Masakazu Kojima and Susumu Shindoh), *Mathematics of Operations Research* 10, 1985, 650-663.
8. "Complete Inflation and Perfect Recall in Extensive Games," *International Journal of Game Theory* 16, 1987, 85-91.
9. "Perfect Equilibrium Points and Lexicographic Domination," *International Journal of Game Theory* 17, 1988, 225-239.
10. "Anarchy and Agreement - A Game Theoretic Analysis of Some Aspects of Contractarianism" (with Hartmut Kliemt), In R. Selten (ed.) *Game Equilibrium Models II - Methods, Morals, and Markets*, Springer-Verlag, 1991, 164-187.
11. "A Noncooperative Approach to the Nash Bargaining Problem," In R. Selten (ed.) *Game Equilibrium Models III - Strategic Bargaining*, Springer-Verlag, 1991, 7-34.
12. "A Two-Person Repeated Bargaining Game with Long-Term Contracts," In R. Selten (ed.), *Game Equilibrium Models III - Strategic Bargaining*, Springer-Verlag, 1991, 34-47.
13. "Inspector Leadership with Incomplete Information" (with Rudolf Avenhaus and Shmuel Zamir), In R. Selten (ed.), *Game Equilibrium Model IV- Social and Political Interaction*, Springer-Verlag, 1991, 319-361.
14. "Lexicographic Domination in Extensive Games," *International Journal of Game*

*Theory* 20, 1991, 95-108.

15. "The Emergence of the State - A Game Theoretic Analysis of the Theory of Social Contract" (with Kenichi Sakakibara), *The Economic Studies Quarterly* 42, 1991, 315-333.
16. "Statistical Criteria for Sequential Inspection Games" (with Rudolf Avenhaus), *Journal of the Operations Research Society of Japan*, 35, 1992, 134-151.
17. "Noncooperative Bargaining and the Core of an n-Person Characteristic Function Game," *Control and Cybernetics* 21, 1992, 231 - 250.
18. "The Possibility of Cooperation in an n-Person Prisoners' Dilemma with Institutional Arrangements," *Public Choice* 77, 1993, 629 - 656.
19. "A Noncooperative Coalitional Bargaining Game with Random Proposers," *Games and Economic Behavior* 16, 1996, 97-108.
20. "The Organization of Social Cooperation: A Noncooperative Approach," In W. Gueth et al. (eds.), *Understanding Strategic Interaction - Essays in Honor of Reinhard Selten*, Springer-Verlag, 1996, 228-242.
21. "The Dynamic Transformation of Political Systems through Social Contract: A Game Theoretic Approach" (with Kenichi Sakakibara and Koichi Suga), *Social Choice and Welfare*, 14, 1997, 1-21.
22. "The Efficiency Principle in Non-cooperative Coalitional Bargaining," *Japanese Economic Review* 51, 2000, 34-50.
23. "A Noncooperative Axiomatization of the Core" (with Eyal Winter), *Theory and Decision* 53(1), 2003, 1-28.
24. "A Market Game Analysis of International CO2 Emissions Trading: Evaluating Initial Allocation Rules," in Takamitsu Sawa (ed.), *International Frameworks and Technological Strategies to Prevent Climate Change*, Springer, 2003, 3-21.
25. "Inefficiency and Social Exclusion in a Coalition Formation Game: Experimental Evidence" (with Arno Riedl), *Games and Economic Behavior* 50, 2005, 278-311.
26. "Riskless versus Risky Bargaining Procedures: The Aumann-Roth Controversy Revisited" (with Maria Montero), *Japanese Economic Review* 58, 2007, 294-302.
27. "International Negotiations on Climate Change: A Non-cooperative Game Analysis of the Kyoto Protocol," In R. Avenhaus and I.W. Zartman (eds.), *Diplomacy Games: Formal Models and International Negotiations*, Springer, 2007, 231-250.
28. "The Second-Order Dilemma of Public Goods and Capital Accumulation," *Public Choice* 135, 2008, 165-182.

29. "Institution Formation in Public Goods Games" (with Michael Kosfeld and Arno Riedl), *American Economic Review* 99, 2009, 1335-55.
30. "The Nash Bargaining Solution in General n-Person Cooperative Games," *Journal of Economic Theory* 145, 2010, 2356–2379.
31. "Perfect Bayesian Equilibrium and Sequential Equilibrium," Wiley Encyclopedia of Operations Research and Management Science (EORMS). John-Wiley & Sons, 2011.
32. "Ability to Stop Thinking and Strategy Choice in Dilemma Games" (with Kazuo Nishimura and Yoshikazu Tobinaga), *International Journal of Economic Theory* 7, 2011, 133-146.
33. "Coalitional Bargaining Games with Random Proposers: Theory and Application," *Games and Economic Behavior* 73, 2011, 227-235..
34. "Dynamic Group Formation in the Repeated Prisoner's Dilemma," (with Toshimasa Maruta), *Games and Economic Behavior* 74, 2012, 269-284.
35. "Stochastically Stable Equilibria in n-Person Binary Coordination Games," (with Toshimasa Maruta), *Mathematical Social Sciences* 63, 2012, 31-42.
36. "Non-cooperative Bargaining and the Incomplete Informational Core," *Journal of Economic Theory* 147, 2012, 1165-1190.
37. "The Stationary Equilibrium of Three-Person Cooperative Games: A Classification," forthcoming in *International Journal of Game Theory*.
38. "The Formation and Long-run Stability of Cooperative Groups in a Social Dilemma Situation" (with Toshimasa Maruta), forthcoming in *International Journal of Economic Theory*.

#### Unpublished papers

1. "A Note on Quasi-Strong Equilibrium Points of Noncooperative Games," Research Report No. B-114, Dept. of Information Sciences, Tokyo Institute of Technology, 1982.
2. "Robustness of Equilibrium Points in Strategic Games," Research Report No. B-137, Dept. of Information Sciences, Tokyo Institute of Technology, 1983.
3. "Bayesian Equilibrium Points for Bilateral Trading with Incomplete Information, "

Research Report No. B-150, Dept. of Information Sciences, Tokyo Institute of Technology, 1984.

4. "Coalition Formation and Renegotiation," Kyoto University, KIER DP. No. 460, 1997.
5. "When Culture Does Not Matter: Experimental Evidence from Coalition Formation Ultimatum Games in Austria and Japan" (with Arno Riedl), Kyoto University, KIER DP No.497, 1999.
6. "Stochastic Stability of Group Formation in Collective Action Games," (with Toshimasa Maruta), Kyoto University, KIER DP No.536, 2001.
7. "Group Formation and Heterogeneity in Collective Action Games," (with Toshimasa Maruta), DP #2005-7, Graduate School of Economics, Hitotsubashi University, 2005.
8. "Stochastically Stable Equilibria in Coordination Games with Multiple Populations," (with Toshimasa Maruta) DP #2009-1, Graduate School of Economics, Hitotsubashi University, 2009.
9. "A Non-cooperative Bargaining Theory with Incomplete Information: Verifiable Types," DP #2013-15, Graduate School of Economics, Hitotsubashi University, 2013.
10. "Cooperation and Institution in Games," DP #2014-11, Graduate School of Economics, Hitotsubashi University, 2014.

Books (in Japanese):

1. *Game Theory*, Yuhikaku Publishing Co., Tokyo, 1<sup>st</sup>. Ed. 1996, New Ed., 2011.
2. *Mathematics for Economics and Management*, Toyokeizai, Tokyo, 2001.
3. *Introduction to Game Theory*, Yuhikaku Publishing Co., Tokyo, 2008, New Ed., 2014.

Edited Books (in Japanese)

1. *New Developments of Game Theory* (with Haruo Imai), Keiso Shobo, Tokyo, 2002.
2. *Applications of Game Theory* (with Haruo Imai), Keiso Shobo, Tokyo, 2005.
3. *Games in International Conflict and Cooperation* (with Motoshi Suzuki), Yuhikaku Publishing Co., Tokyo, 2013.

Talks at International Conferences:

The International Conference on Game Theory and Application, June 18-24, The Ohio State University, 1987

"Perfect Equilibrium Points and Lexicographic Domination"

"A Two-Person Repeated Bargaining Game with Long-Term Contracts"

The International Conference on Game Theory and Application, July 9-22, The Ohio State University, 1989

"Lexicographic Domination in Extensive Games"

The Summer Meeting of the Econometric Society, June 21-24, University of Michigan, 1989

"A Noncooperative Approach to the Nash Bargaining Problem"

The International Conference on Game Theory and Application, July 13-17, SUNY at Stony Brook, 1992

"Noncooperative Bargaining and the Core of an n-Person Characteristic Function Games"

The Northwestern Summer Workshop "Cooperation and Dynamics in Games," August 5-9, Northwestern University, 1992

"Noncooperative Bargaining and the Core of an n-Person Characteristic Function Games"

The Fourth TCER Summer Conference on Economic Theory, July 1-4, 1994, Nagano, Japan

"A Noncooperative Coalitional Bargaining Model with Random Proposers"

The International Conference on Game Theory and Application in Honor of Robert J. Aumann on his 65th Birthday, June 25 - 29, 1995, The Hebrew University of Jerusalem

"The Transition of Political Systems through Social Contract : A Game Theoretic Approach" (with Kenichi Sakakibara and Koichi Suga)

The JST International Conference on Game Theory and International Cooperation, March 24 - 27, 1998, Kyoto, Japan.

"Social Development Promoted by Cooperation: A Simple Game Model".

The International Symposium "New Development in Experimental Economics", March 3-5, 1999, Osaka, Japan

"Inefficiency and Social Exclusion in a Coalitional Formation Game: Experimental Evidence" (with Arno Riedl)

Fourth Spanish Meeting on Game Theory and Applications, Game Practice II, July 19-21, 2000, Valencia, Spain

"A Cooperative Game Analysis of CO2 Emission Permits Trading: Evaluating Initial Allocation Rules."

First World Congress of the Game Theory Society (Games 2000), July 24-28, 2000, Bilbao, Spain

"Social Development Promoted by Cooperation: A Simple Game Model,"

"Inefficiency and Social Exclusion in a Coalition Formation Game: Experimental Evidence" (with Arno Riedl).

Interdisciplinary Symposium on the Sciences of Complexity, June 23-24, 2001, Tokyo



“Group Formation in Bargaining Games: Theory and Experiments”

Advances in Game Theory and Related Topics joint with Game Practice III, June 23-25, 2002, Hilvarenbeek

“Stochastic Stability of Group Formation in Collective Action Games”

Social Choice and Welfare Conference, July 25, 2004

“International Negotiations on Climate Change: A Non-Cooperative Game Analysis”

American Association for the Advancement of Science (AAAS), February 17-20, 2005

“International Negotiations on Climate Change: A Non-Cooperative Game Analysis”

International Conference “Symposium on Market Quality: Aspects from Microeconomics, Game Theory, and Finance,” December 17-18, 2005

“A Noncooperative Approach to General n-Person Cooperative Games”

The Third Game Theory Society World Congress, July 12-17, 2008, Northwestern University

“The Nash Bargaining Solution in General n-Person Cooperative Games”

Game Theory Festival, Workshop “Implementation of Cooperative Solutions-The Nash Program,” July 22-23, 2008, New York State University, Stony Brook

“The Nash Bargaining Solution in General n-Person Cooperative Games”

Far Eastern and South Asia Meeting of Econometric Society (FESAMES), August 3-5 2009,

“Coalitional Bargaining Game with Random Proposers: Theory and Application”

The 15th Coalition Theory Network Workshop, June 17-18, 2010

“Dynamic Group Formation in Repeated Prisoner's Dilemma”

Symposium on the Occasion to Celebrate the 150th Anniversary of the German-Japanese Relationships, "The Evolution of Trust: How Trust is Built Up and Destroyed in Advanced Society," September 9, 2012, University of Cologne

"Cooperation and Institution Formation"

Frankfurt School of Finance & Management, July 16-20, 2012

"Cooperation in Game Equilibrium Models"

Summer School of the International Max Planck Research School on adapting behavior in a fundamentally uncertain world (IMPRS Uncertainty), "Adapting Behavior in a Fundamentally Uncertain World (IMPRS Uncertainty)," July 30-August 3, 2012

"Cooperation in Game Equilibrium Models"

14<sup>th</sup> SAET Conference, August 19-21, 2014

“A Non-cooperative Bargaining Theory with Incomplete Information:  
Verifiable Types,”