

Curriculum Vitae

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Personalia

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Education

1992: M.A., Econometrics and Operations Research, March,
Erasmus University, Rotterdam
1996: PhD., Mathematics, 29 November, Maastricht University (Supervisors: J.
Rotmans and O.J. Vrieze)

Positions

2010(7)- Associate Professor, School of Human Evolution and Social Change,
College of Liberal Arts and Sciences, Arizona State University
2010(7) - Director, Center for the Study of Institutional Diversity, Arizona State
University
2007(8) – 2010(6) Associate Director, Center for the Study of Institutional
Diversity, Arizona State University
2005(8)- 2010(6) Assistant Professor, School of Human Evolution and Social
Change, College of Liberal Arts and Sciences, Arizona State University
2005(8)-2008(5) Assistant Professor, Department of Computer Science and
Engineering, School of Computing and Informatics, Ira Fulton School of
Engineering, Arizona State University
2004(8)-2005(7) Visiting Assistant Professor, Cognitive Science Program,
Indiana University
2004(8)-2005(7) Visiting Assistant Professor, School of Informatics, Indiana
University
2004(8)-2005(7) Research Scientist, Center for the study of Institutions,
Population and Environmental Change, Indiana University
2002(2)-2004(7) Associate Research Scientist, Center for the study of
Institutions, Population and Environmental Change, Indiana University
1998(10)-2002(1) Postdoctoral Research fellow, Department of Spatial
Economics, Vrije Universiteit, Amsterdam
1992(4)-1999(10) Researcher at RIVM (1992-1996 CM; 1996-1999 Bureau of
Environmental Assessments)
1992(4)-1996(3) PhD student (AIO – Research and Teaching Assistant), Department
of Mathematics, Maastricht University
1991(6)-1992(1) Internship, Centre of Mathematics (CM), National Institute for
Public Health and the Environment (RIVM)

Affiliations

- 2011(7) - Affiliated Faculty, School of Public Affairs, Arizona State University
- 2011(1) - Senior Sustainability Scientist, Global Institute of Sustainability, Arizona State University
- 2008 - Affiliated Faculty, School of Sustainability, Arizona State University
- 2008 - Core Faculty, Center for Social Dynamics and Complexity, Arizona State University
- 2008 - Core Faculty, Mathematical and Computational Modeling Sciences Center, Arizona State University
- 2004(8)- Affiliated Faculty, Workshop in Political Theory and Policy Analysis, Indiana University
- 2003(8)-2003(12) Adjunct Faculty, School of Public and Environmental Affairs, Indiana University

Visiting positions

- June 2012, Guest Professor, Department of Agricultural Economics, Humboldt University, Berlin, Germany
- September/October 2011, Guest Professor, Slovak Academy of Sciences, Bratislava, Slovakia
- March 2004 Visiting scientist, Department of Ecology and Evolutionary Biology, Princeton University, Princeton, USA (March)
- July 2003, Visiting scientist, CSIRO Sustainable Ecosystems, Canberra, Australia
- December 2000, Visiting scientist CIRAD, Montpellier, France
- July 2000, Visiting scientist, CSIRO Sustainable Ecosystems, Canberra, Australia
- March 2000, Visiting scientist, Santa Fe Institute, NM, USA
- March/June 1999, Visiting scientist, CSIRO Wildlife and Ecology, Canberra, Australia
- January/February 1994, School of Mathematics, University of South Australia, Adelaide, Australia.

Honors

- Leopold Leadership Fellowship (2011)
- NSF CAREER award (2008)
- Arizona State University Faculty Achievement Award in Defining Edge Research, Social Science (2008)
- Elected member of the Ralf Yorque Society (2001)

Research and teaching interests

My research focuses on the interaction of behavioral, institutional and ecological processes. I am interested how people, their institutional rules and the environment they live in fit together in the past, present and the future, from local scales to the global scale. I develop formal (computational) models of social and social-ecological systems, and perform controlled experiments in the lab and field, and study case study material to test the stylized models. My teaching focuses on social simulation, agent-based modeling and institutional analysis.

Courses taught

Arizona State University

2012

ASB 328 Rules, Games and Society (Fall)

AML 520 Agent-Based Modeling (Fall)

BIO 591 Environmental Leadership and Communication (Spring)

2011

ASB 430 Social Simulation (Spring)

2010

AML 591 Agent-Based Modeling (Fall)

ESS 591 Experimental Social Science (Fall)

ASB 430/AML 394 Social Simulation (Spring)

ASB 394 Rules, Games and Society (Spring)

2009

ASM591 Readings in Complexity (Fall)

AML100 Introduction to Applied Mathematics in the Life and Social Sciences (Fall)

ASB430 Social Simulation (Spring)

ASM591 Advances in Modeling for Life and Social Sciences (Spring)

2008

ASM591/MAT 598 Agent-based Modeling (Fall)

ASM591 Advances in Modeling for Social and Life Sciences (Spring)

ASB394 Rules, Games and Society (Spring)

2007

ASB591/CSE591/MAT598 Agent-based Modeling (Fall)

ASB394 Rules, Games and Common Resources (Fall)

ASB326 Human Impacts on Ancient Environments (Spring)

ASB591/CSE591/MAT598 "Computer Simulation in the Social Sciences (Spring)

2006

ASB494/CSE494 Social Simulation (Fall)

ASB591/BIO 591 Institutional Analysis (Fall)

ASB591/CSE591 Computer Simulation in the Social Sciences (Spring)

Indiana University

2005

I400/I590 Topics in Informatics: Games and Gossip (Spring)

2003

V685 Integrated Modelling of Humans and the Environment (Fall)

Vrije Universiteit, Amsterdam

2001

Advanced undergraduate course “Evolutionary economics and management” (Spring)

Post-doctoral researcher mentoring

Jacopo Baggio, development studies, August 2011 -

Irene Perez Ibarra, ecology, April 2010 –

Michael Schoon, public policy, September 2008-April 2010, currently assistant director of the Complex Adaptive Systems Initiative at Arizona State University

Robert Tobias, social psychologist, March 2008-March 2009, currently: tenured senior research scientist at EAWAG, Switzerland

Graduate Student Mentoring

PhD students (chair/co-chair)

Skaidra Smith-Heisters, Environmental Social Change (PhD, Chair, in progress)

Madelyn Tyson, Sustainability (PhD, Chair, in progress)

Yunkwan Kim, Applied Mathematics for the Life and Social Sciences (PhD, Chair)

Sindy de la Torre, Environmental Social Change (PhD, Chair, in progress)

Kehinde Salau, Applied Mathematics for the Life and Social Sciences (PhD, co-Chair)

Nathan Rollins, Anthropology, Arizona State University (PhD, chair, in progress)

Nicholas Radtke, Computer Science and Engineering, Arizona State University (PhD, co-Chair, 2011)

Alessio Delre, Marketing, Groningen University, the Netherlands (PhD, co-Chair, 2007), currently: Assistant Professor, Department of Marketing, Bocconi University, Milan, Italy

Wander Jager, Social Psychology, University of Groningen, the Netherlands (PhD, co-Chair, 2000), currently: Associate Professor, Department of Marketing, University of Groningen, the Netherlands

PhD students (committee member)

Jesse Sayles, School of Geographical Sciences & Urban Planning, (PhD, Member, in progress)

David Yu, School of Sustainability, Arizona State University (PhD, Member, in progress)

Yun Ouyang, School of Sustainability, Arizona State University (PhD, Member, in progress)

Zachary Shaffer, Life Sciences, Arizona State University (PhD, Member, in progress)

Takao Sasaki, Life Sciences, Arizona State University (PhD, Member, in progress)

Sean Bergin, Archaeology, Arizona State University (PhD, Member, in progress)

Michael Merrill, Archaeology, Arizona State University (PhD, Member, in progress)

Daniel Castillo Brieva, Environmental Management, University Paris X-Nanterre (PhD, Member, in progress)

Joshua Watts, Archaeology, Arizona State University (PhD, Member, in progress)

Gary Mayer, Computer Science and Engineering, Arizona State University (PhD, Member, 2009)

Michael Schoon, Joint program in Public Affairs and Public Policy, Indiana University (PhD, Member, 2008)

Emily Nagoski, Applied Health Science, Indiana University (PhD, Member, 2006)

Tei Laine, Computer Science and Cognitive Science, Indiana University (PhD, Member, 2006)

Orjan Bodin, Systems Ecology, Stockholm University, Sweden, (PhD, Member, 2006)

Master students (chair / co-chair)

Alhaji Cherif, Applied Mathematics for the Life and Social Sciences (MA, chair, 2010), moved on to PhD student at Oxford University
Vijay Prabhakar, Computer Science and Engineering, Arizona State University (MA, Chair, 2009), moved on to Pharmanet Development Group, NJ
Sanket Joshi, Computer Science and Engineering, Arizona State University (MA, co-Chair, 2008), moved on to Microsoft
Deepali Bhagvat, Computer Science and Engineering, Arizona State University (MA, co-Chair, 2008), moved on to Microsoft
Jasper Noordam, Artificial Intelligence, University of Amsterdam, the Netherlands (MA, Chair, 1999), moved on to Friesland Bank, the Netherlands

Master students (committee member)

David Shanafelt, Life Sciences (MA, Member, in progress)
Deepak Barge, Computer Science and Engineering (MS, Member 2010).
Seema Talele, Computer Studies, (MA, Member, 2010)
Kehinde Salau, Applied Mathematics for the Life and Social Sciences (MA, Member, 2009)
Miran Bozicevic, Anthropology, Arizona State University (MA, Member, 2008)
Anco van Duivenbooden, Mathematics, Utrecht University, the Netherlands (MA, Member, 1994)

Undergraduate student mentoring

Mirna Hodzik, Global Health, REU, Fall 2011/Spring 2012 (chair honors thesis)
Shawn FitzPatrick, Computer Science, REU, Summer/Fall 2011, Spring 2012
Steven Elias, Computer Science, REU, Summer/Fall 2011, Spring 2012
Brian Tang, Computer Science, REU, Summer/Fall 2011
Nicholas Hohman, Economics, REU, Spring/Summer/Fall 2011, Spring 2012
Diana Padilla, Biology, Spring/Summer 2011, Spring 2012 (chair honors thesis)
Stephen Choi, Obama Scholar, Fall 2010, Spring 2011
Bradley Hartwig, Applied Mathematics in the Life and Social Science, REU, Fall 2010, Spring 2011
Sergio Loza, Obama Scholar, Spring 2010
Alexandra Hernandez, Obama Scholar, Fall 2009 and Spring 2010
Hannah Wasserman, Economics, REU, Spring, Summer and Fall 2010
Kalin Jonas, Computer Science and Engineering, REU, Spring and Fall 2009
David Lees, Economics, REU, Spring 2008-Spring 2009 (chair honors thesis)
Clint Bushman, Anthropology, REU, Fall 2006 – Summer 2008
Daniel Merritt, Computer Science Engineering, hourly student, Fall 2006
Christine Hendricks, Anthropology and Computer Systems, REU, Summer 2006
Andrew Hodgetts, Business student, Indiana University, Work student program, AY 2002/2003 and AY 2003/2004
Second reader of 4 honors theses ASU

Additional teaching activities

Teaching assistant for courses “Man and the Environment”, Undergraduate Students Environment and Health program, Maastricht University (1993-1995)

Gave two classes on complexity and modeling using Netlogo at Kyrene middle School in Tempe, Arizona (May, 2009).

Training courses

- Summer Institute on Agent-based modelling and natural resource governance, Indiana University, Bloomington. Organized and co-taught with Francois Bousquet (May 16-June 1, 2005)
- PhD Course “Agent-based modelling and Institutional Analysis and Development for Governing Ecosystems”, Royal Swedish Academy of Sciences, Stockholm, Sweden (April 7-11, 2003)
- International training course on Multi-agent Systems and Ecological Economics, Khon Kaen University (Thailand) (April 1-5, 2002)

Development of class material

- Web-based learning tool E-fishery for the Seminar in Institutional Analysis and Development: Micro (Fall semesters of 2002 and 2003, with Andrew Hodgetts)

Graduate Faculty in the following programs:

- Anthropology
- Applied Mathematics for the Life and Social Sciences
- Computer Science
- Environmental Social Science
- Human and Social Dimensions of Science and Technology
- Mathematics
- Global Health
- Sustainability

Publications (chronological order for each category)(* denotes graduate student collaborator, + indicates undergraduate collaborator)

Books

6. **Janssen**, M.A. (2010-) *Games and Gossip*, e-book, <http://www.openabm.org/book/1928/games-gossip>
5. Poteete, A.M., M.A. **Janssen** and E. Ostrom (2010) *Working Together: Collective Action, the Commons and Multiple Methods in Practice*, **Princeton University Press**.
4. Bergh, J.C.J.M. van den and M.A. **Janssen** (eds.) (2004) *Economics of industrial ecology: materials use and spatial scales*, **MIT Press**, Cambridge.
3. **Janssen**, M.A. (ed.) (2002) *Complexity and ecosystem management: the theory and practice of multi-agent systems*, **Edward Elgar Publishers**, Cheltenham UK/ Northampton, MA, USA.
2. **Janssen**, M.A. (1998) *Modelling global change: the art of integrated assessment modelling*, **Edward Elgar Publishers**, Cheltenham UK/ Northampton, MA, USA.
1. **Janssen**, M.A. (1996) *Meeting targets: tools to support integrated assessment modelling of global change*, ISBN 90-9009908-5, PhD Dissertation, Maastricht University

Edited special issues

7. **Janssen**, M.A. (2011), Resilience and adaptation in the governance of social-ecological systems, *International Journal of the Commons* 5(2); 340-512;
6. **Janssen**, M.A. and J.M. Anderies (2011) Governing the commons: Learning from Field and Laboratory experiments *Ecological Economics* 70(9): 1569-1620.
5. Ostrom, E., M.A. **Janssen** and J.M. Anderies (2007) Going beyond Panaceas, *Proceedings of the National Academy of Sciences USA* 104: 15176-15217
4. **Janssen**, M.A. and E. Ostrom (2006) Empirically based, Agent-based modeling of Social-Ecological Systems, *Ecology and Society*, <http://www.ecologyandsociety.org/viewissue.php?sf=25>
3. **Janssen**, M.A. (2006) Historical Institutional Analysis of Social-Ecological Systems, *Journal of Institutional Economics*, 2(2)
2. **Janssen**, M.A. and E. Ostrom (2006) Resilience, Vulnerability and Adaptation of Human dimensions of Global Environmental Change, *Global Environmental Change*, 16(3)
1. **Janssen**, M.A. and W. Jager (2000). The human actor in ecological-economic models, *Ecological Economics*, 35(3).

Refereed Journal Articles

Articles in refereed journals (in review)

101. **Janssen**, M.A., F. Bousquet, J.C. Cardenas, D. Castillo*, and K. Worrappimphong*. Breaking the elected rules in field experiments on forestry resources, *Ecological Economics*
100. **Janssen**, M.A. The role of information in governing the commons: experimental results, submitted

99. Muneeppeerakul, R., M.R. Qubbaj, R.M. Aggarwal, J.A. Anderies, and M.A. **Janssen**, Regime Shifts that Divide Populations, Submitted
98. Hohman+, N., and M.A. **Janssen**, Addressing global sustainability challenges from the bottom up: The role of information feedback, submitted to *Ecology and Society*
97. Salau*, K., M.L. Schoon, J.A. Baggio*, and M.A. **Janssen**, Varying Effects of Connectivity and Dispersal on Interacting Species Dynamics, submitted to *Ecological Modelling*

Articles in refereed journals (in press)

96. **Janssen**, M.A. and N.D. Rollins*, Predicting Behavior in New Behavioral Experiments: Outcomes of a Modeling Competition, submitted to *Journal of Artificial Societies and Social Simulation*
95. **Janssen**, M.A., F. Bousquet, J.C. Cardenas, D. Castillo*, and K. Worrappimphong*, Field Experiments of Irrigation Dilemmas, *Agricultural Systems* in press
94. Shinde*, A., M. Haghnevis*, M.A. **Janssen**, G. Runger and M. Janakiram, Scenario Analysis of Technology Products with an Agent-Based Simulation and Data Mining Framework, *International Journal of Innovation and Technology Management*, in press
93. **Janssen**, M.A., F. Bousquet and E. Ostrom, Multi-method approach to study the governance of social-ecological systems, *Nature Science Société*, in press

Articles in refereed journals

92. **Janssen**, M.A. and N. Rollins* (2012), Evolution of Cooperation in Asymmetric Commons Dilemmas, *Journal of Economic Behaviour and Organization* 81: 220-229
91. **Janssen**, M.A., J.M. Anderies and S. Joshi* (2011), Coordination and Cooperation in Asymmetric Commons Dilemmas, *Experimental Economics* 14(4): 547-566.
90. Anderies, J.M. and M.A. **Janssen** (2011) The fragility of robust social-ecological systems, *Global Environmental Change* 21: 1153-1156.
89. Pérez, I., M.A. **Janssen**, A. Tenza*, A. Giménez, A. Pedreño and M. Giménez (2011), Resource intruders and robustness of social-ecological systems: An irrigation system of Southeast Spain, a case study, *International Journal of the Commons* 5(2): 410-432.
88. Castillo*, D., F. Bousquet, M.A. **Janssen**, K. Worrappimphong*, and J-C. Cardenas (2011) Context matters to explain field experiments: results from Thai and Colombian fishing villages, *Ecological Economics* 70(9): 1609-1620.
87. **Janssen**, M.A., J.M. Anderies and J.C. Cardenas (2011) Head-enders as stationary bandits in asymmetric commons: Comparing irrigation experiments in the laboratory and the field, *Ecological Economics* 70(9): 1590-1598.
86. Anderies, J.M., M. A. **Janssen**, F. Bousquet, J-C. Cardenas, D. Castillo*, M-C. Lopez, R. Tobias, B. Vollan, A. Wutich (2011) The challenge of understanding decisions in experimental studies of common pool resource governance, *Ecological Economics* 70 (9): 1571-1579.
85. Sasaki, T.*, D. Vaught, M.A. **Janssen** and R. Neel* (2011) Do Informative Choices Actually Inform Us?: Relationship between Quantity of Information Offered and Diversity of Consumer Decision, *Journal of Economic Psychology* 32: 391-398
84. Reynolds, G. Bastin, L. Garcia-Barrios, A. Grainger, R.J. Fernández, M.A. **Janssen**, N. Jürgens, R.J. Scholes, M. Stafford Smith, A. Veldkamp, M.M. Verstraete, G. Von Maltitz, and P. Zdruli (2011) Scientific concepts for an integrated analysis of desertification, *Land Degradation and Development* 22(2): 166-183
83. Rodriguez, A.A. Cifdaloz*, O., J.M. Anderies, M.A. **Janssen**, J. Dickeson* (2011), Confronting Management Challenges in Highly Uncertain Natural Resource Systems: a

- Robustness–Vulnerability Trade-off Approach, *Environmental Modeling and Assessment* 16(1): 15-36
82. Baggio*, J., K. Salau*, M.A. **Janssen**, M.L. Schoon, and O. Bodin (2011) Landscape connectivity, node centrality and predator-prey population dynamics, *Landscape Ecology* 26: 33-45
 81. **Janssen**, M.A. (2010) Evolution of rules in shedding type of card games, *Advances in Complex Systems* 6: 741-754
 80. **Janssen**, M.A. (2010) Population aggregation in the ancient arid environments, *Ecology and Society* 15(2): 19. [online] URL: <http://www.ecologyandsociety.org/vol15/iss2/art19/>
 79. **Janssen**, M. A. (2010) Introducing Ecological Dynamics into Common-Pool Resource Experiments. *Ecology and Society* 15 (2): 7. [online] URL: <http://www.ecologyandsociety.org/vol15/iss2/art7/>
 78. **Janssen**, M.A., R. Holahan*, A. Lee and E. Ostrom (2010), Lab Experiments for the Study of Social-Ecological Systems, *Science* 328: 613-617.
 77. Delre*, S.A, W. Jager, T.H.A. Bijnholt and M.A. **Janssen** (2010) Will it spread or not? The effects of social influences and network topology on innovation diffusion, *Journal of Product Innovation Management*, 27: 267-282.
 76. **Janssen**, M.A., N.P. Radtke*, A. Lee (2009), Pattern-oriented modeling of commons dilemma experiments, *Adaptive Behaviour* 17:508-523.
 75. **Janssen**, M.A. (2009), Understanding Artificial Anasazi, *Journal of Artificial Societies and Social Simulation* 12 (4) 13 <<http://jasss.soc.surrey.ac.uk/12/4/13.html>>
 74. Radtke*, N.P. and M.A. **Janssen** (2009), Competition and Production of digital public goods, *International Journal of Intelligent Control and Systems* 14(1): 77-86
 73. McAllister, R.R.J., L.R.. Izquierdo, M.A. **Janssen**, D.M. Stafford Smith (2009), Research impact within the international arid literature: an Australian perspective based on network-theory, *Journal of Arid Environment*, 73: 862-871
 72. Linksvayer*, T.A. and M.A. **Janssen** (2009), Traits underlying the capacity of ants to adapt to disturbance and stress regimes, *Systems Research and Behavioral Science* 26(3): 315-329
 71. Radtke*, N.P., M.A. **Janssen** and J.S. Collofello (2009), What Makes Free/Libre Open Source Software (FLOSS) Projects Successful? An Agent-based Model of FLOSS Projects, *International Journal of Open Source Software and Processes* 1(2): 1-13
 70. Lansing, J.S., M.P. Cox, S.S. Downey*, M.A. **Janssen** and J.W. Schoenfelder (2009) A robust budding model of Balinese water temple networks, *World Archaeology* 41(1): 112-133
 69. **Janssen**, M.A., and E. Ostrom (2008), TURFs in the lab: Institutional Innovation in dynamic interactive spatial commons, *Rationality and Society*, 20: 371-397
 68. **Janssen**, M.A. and C. Bushman+ (2008), Evolution of cooperation and altruistic punishment when retaliation is possible, *Journal of Theoretical Biology* 254:541-545
 67. **Janssen**, M.A., R.L. Goldstone, F. Menczer and E. Ostrom (2008), Effect of rule choice in dynamic interactive spatial commons, *International Journal of the Commons*, 2(2): 288-312
 66. **Janssen**, M.A., C.M. Barton, L.N. Alessa, S. Bergin*, and A. Lee (2008), Towards a Community Framework for Agent-based Modeling, *Journal of Artificial Societies and Social Simulation*, 11: 2(6) <<http://jasss.soc.surrey.ac.uk/11/2/6.html>>

65. **Janssen**, M.A. (2008), Evolution of cooperation in a one-shot prisoner's dilemma based on recognition of trustworthy and untrustworthy agents, *Journal of Economic Behavior and Organization*, 65: 458-471
64. **Janssen**, M.A. and J.M. Anderies (2007), Robustness-tradeoffs for social-ecological systems, *International Journal of the Commons* 1(1): 77-99
63. Anderies, J. M., A.A. Rodriguez, M.A. **Janssen**, and O. Cifadloz* (2007), Panaceas, uncertainty, and the robust control framework in sustainability science. *Proceedings of the National Academy of Sciences USA* 104:15194–15199.
62. Ostrom, E, M.A. **Janssen**, and J.M. Anderies (2007), Going beyond panaceas. *Proceedings of the National Academy of Sciences USA* 104:15176–15178.
61. **Janssen**, M. A. (2007). An Update on the Scholarly Networks on Resilience, Vulnerability, and Adaptation within the Human Dimensions of Global Environmental Change. *Ecology and Society* 12 (2): 9. [online] URL: <http://www.ecologyandsociety.org/vol12/iss2/art9/>
60. Satake, A., M.A. **Janssen**, S.A. Levin, and Y. Iwasa (2007), Synchronized deforestation induced by social learning under uncertainty of forest-use value, *Ecological Economics*, 63: 452-462
59. Delre*, S.A., W. Jager, M.A. **Janssen**, T.H.A. Bijmolt (2007), Targeting and timing promotional activities: An agent-based model for the takeoff of new products, *Journal of Business Research*, 60: 826-835
58. Robinson*, D.T., D.G. Brown, D.C. Parker, P. Schreinemachers*, M.A. **Janssen**, M. Huigen*, H. Wittmer, N. Gotts, P. Promburom*, E. Irwin, T. Berger, F. Gatzweiler, C. Barnaud* (2007), Comparison of empirical methods for building agent-based models in land use science, *Journal of Land Use Science*, 2(1): 31-55.
57. Delre*, S.A, W. Jager and M.A. **Janssen** (2007), Diffusion dynamics in small-world networks with heterogeneous consumers. *Computational & Mathematical Organization Theory* 13(2): 185-202
56. **Janssen**, M.A., J.M. Anderies and E. Ostrom (2007) Robustness of Social-Ecological Systems to Spatial and Temporal Variability, *Society and Natural Resources* 20(4): 307-322
55. **Janssen**, M.A. (2007) Coordination in irrigation systems: An analysis of the Lansing-Kremer model of Bali, *Agricultural Systems* 93: 170-190
54. **Janssen**, M.A. and E. Ostrom (2006), Empirically based agent-based models, *Ecology and Society* 11(2): 37. [online] URL: <http://www.ecologyandsociety.org/vol11/iss2/art37/>
53. **Janssen**, M.A and T.K. Ahn (2006), Learning, Signaling and Social Preferences in Public Good Games, *Ecology and Society* 11(2): 21. [online] URL: <http://www.ecologyandsociety.org/vol11/iss2/art21/>
52. **Janssen**, M.A., H. Goosen*, and N. Omtzigt (2006), A simple mediation and negotiation support tool for water management in the Netherlands, *Landscape and Urban Planning* 78(1-2): 71-84
51. **Janssen**, M.A. and R.L. Goldstone (2006), Dynamic-persistence of cooperation in public good games when group size is dynamic, *Journal of Theoretical Biology* 243(1): 134-142
50. Young, O.R. F. Berkhout, G. Gallopin, M.A. **Janssen**, E. Ostrom and S. van der Leeuw (2006), The Globalization of Socio-Ecological Systems: An Agenda for Scientific Research, *Global Environmental Change* 16(3): 304-316.

49. **Janssen**, M.A., M.L. Schoon*, W. Ke*, K. Börner (2006), Scholarly networks on resilience, vulnerability and adaptation within the human dimensions of global environmental change, *Global Environmental Change* 16(3): 240-252
48. York*, A.M., M.A. **Janssen** and L.A. Carlson (2006), Diversity of incentives for private forest landowners: an assessment of programs in Indiana, USA, *Land Use Policy* 23(4): 542-550
47. McAllister R.R.J., I.J. Gordon, M.A. **Janssen** and N. Abel (2006), Pastoralists' Responses to Variation of Rangeland Resources in time and space, *Ecological Applications* 16(2): 572-583.
46. Hoekstra*, R. and M.A. **Janssen** (2006), Environmental responsibility and policy in a two country dynamic input-output model, *Economic Systems Research* 18(1): 61-84.
45. **Janssen**, M.A., Ö. Bodin*, J. M. Anderies, T. Elmqvist, H. Ernstson*, R. R. J. McAllister, P. Olsson, and P. Ryan*. 2006. Toward a Network Perspective of the Study of Resilience in Social-Ecological Systems. *Ecology and Society* 11(1): 15 [online]. URL: <http://www.ecologyandsociety.org/vol11/iss1/art15/>
44. **Janssen**, M.A. (2006), Evolution of Cooperation when Feedback to Reputation Scores is Voluntary, *Journal of Artificial Societies and Social Simulation* 9(1): <http://jasss.soc.surrey.ac.uk/9/1/17.html>
43. **Janssen**, M.A. (2005), Evolution of institutional rules: an immune system perspective, *Complexity* 11(1): 16-23
42. Goldstone, R.L. and M.A. **Janssen** (2005), Computational models of collective behaviour, *Trends in Cognitive Science* 9(9): 424-430
41. **Janssen**, M.A. and E.E. Osnas* (2005), Adaptive capacity of social-ecological systems: lessons from immune systems, *Ecohealth* 2(2): 93-101
40. Anderies, J.M., M.A. **Janssen** and E. Ostrom (2004), A framework to analyze the robustness of social-ecological systems from an institutional perspective, *Ecology and Society* 9(1): 18. [online] URL: <http://www.ecologyandsociety.org/vol9/iss1/art18>
39. **Janssen**, M.A. and M. Scheffer (2004), Overexploitation of renewable resources by ancient societies and the role of sunk cost effects, *Ecology and Society* 9(1): 6. [online] URL: <http://www.ecologyandsociety.org/vol9/iss1/art6>
38. **Janssen**, M.A., J.M. Anderies and B.H. Walker (2004), Robust strategies for managing rangelands with multiple stable attractors, *Journal of Environmental Economics and Management* 47:140-162
37. **Janssen**, M.A. and J.C.J.M. van den Bergh (2004), Into the black box of environmental Kuznets curves: optimal growth and material resource use in two trading countries, *Annals of Regional Science* 38: 93-112
36. **Janssen**, M.A., T.A. Kohler, and M. Scheffer (2003), Sunk-cost effects and vulnerability to collapse in ancient societies, *Current Anthropology* 44(5): 722-728.
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8. Vries de, H.J.M. and M.A. **Janssen** (1996), 'Global Energy Futures: An integrated systems perspective', GLOBO Report Series no. 17, RIVM, Bilthoven, the Netherlands.
7. Swart, R., M. Berk, E. Kreileman, M. **Janssen**, J. Bollen*, R. Leemans and B. de Vries (1996), 'The Safe Landing Approach: Risks and Trade-offs in Climate Change', paper presented at a special session at the occasion of the 2nd Conference of Parties to the Framework Convention on Climate Change and the Ad Hoc Group on the Berline Mandate.
6. Rotmans, J., M.B.A. van Asselt*, A.J. de Bruin, M.G.J. den Elzen, J. de Greef, H. Hilderink*, A.Y. Hoekstra*, M.A. **Janssen**, H.W. Köster, W.J.M. Martens*, L.W. Niessen* and H.J.M. de Vries (1994), Global Change and Sustainable Development: A Modelling Perspective for the Next Decade, RIVM Report, 461502004, Bilthoven, the Netherlands

5. **Janssen**, M.A. and W.J.M Martens* (1995), Sex, Drugs and Climate Change: Modelling Malaria as a Complex Adaptive System, GLOBO Working Paper 95-2, RIVM, Bilthoven, the Netherlands.
4. **Janssen**, M.A. (1995), The Battle of Perspectives, GLOBO Working Paper 95-3, RIVM, Bilthoven, the Netherlands.
3. **Janssen**, M.A. and H.B.M. Hilderink* (1994) Guidelines for Implementation TARGETS 1.0, CWM-MEMO 002/94, RIVM, Bilthoven, the Netherlands.
2. **Janssen**, M.A., M.G.J. den Elzen and J. Rotmans (1992), Allocating CO₂-Emissions by Using Equity Rules and Optimization, RIVM, Report nr. 222901012, Bilthoven, The Netherlands.
1. **Janssen**, M.A. (1992), Historical and Future Regional Emission Paths of Carbon Dioxide: Allocation and Optimization Mechanisms, Master Thesis, Department of Operations Research, Erasmus University of Rotterdam.

Sponsored Research

- National Science Foundation, awarded 2011 (period 2012 – 2015) **Senior Personnel** \$ 1,000,000 (IPG - Developing and Testing an Integrated Paleoscape Model for the early Middle and Late Pleistocene of the South Coast of South Africa)
- National Science Foundation, awarded 2011 (period 2011 – 2012); **co-PI** \$ 199,999 (Rapid VOSS: Understanding the Challenges Inherent in the Design, Execution and Participation in Governance Challenge Platforms)
- National Science Foundation, awarded 2011 (period 2011 – 2015); **co-PI** \$ 1,499,093 (CNH: When Strengths Can Become Weaknesses: Emerging Vulnerabilities in Coupled Natural Human Systems under Globalization and Climate Change)
- National Science Foundation, awarded 2009 (period 2009 – 2014); **co-PI** \$ 499,735 (RCN: A research network for computational modeling in the socioecological systems): Coupled Human and Natural Systems Program.
- National Science Foundation, awarded 2008 (period 2008-2013); **PI** \$414,827 (CAREER: Innovation of institutional rules in the governance of common resources): Innovation and Organizational Sciences program and the Decision, Risk, and Management Science Program
- National Science Foundation, awarded 2006; (period 2006-2008); **co-PI**, \$124,311 (Community Development Proposal: Integrating Socio-Ecological Sciences Through a Community Modeling Framework): Human and Social Dynamics Program.
- National Science Foundation, awarded 2005; (period 2005-2007); **co-PI**, \$540,955 (Long-Term Coupled Socioecological Change in the American Southwest and Northern Mexico): Biocomplexity Program.
- National Science Foundation, awarded 2005; (period 2005-2008); **co-PI**, \$749,278 (Integrated Analysis of Robustness in Dynamic Social Ecological Systems): Human and Social Dynamics Program
- National Science Foundation, awarded 2004; (period 2004-2008); **PI**, \$600,316 (The Dynamics of Rules in Commons Dilemmas): Human and Social Dynamics Program.
- Resilience Alliance, awarded 2002; (period 2002-2003); **PI**, \$15,000 (Adaptive capacity of ant colonies)
- Resilience Alliance, awarded 2002; (period 2002-2003); **PI**, \$15,000 (Adaptive capacity of immune systems and its relevance for studying self-governance in social-ecological systems)
- Swedish Research Council, 2002; (period 2002-2004); **co-PI**, 845,000 Swedish Krona (= \$85,000), (Economic and institutional tools for sustainable management of Biodiversity)
- European Union, awarded 2000; (period 2000-2003); **PI**; 150,000 Euro (= \$155,000) (Applications of Artificial Immune Systems to ecosystem management (IST-2000-26016))

Presentations (since 2001)

2011

- (Invited) November 18, Bottom Up Collective Action to Address Global Change Challenges, Colloquium, School of Public Affairs, Arizona State University.
- October 11, Targeting individuals to catalyze collective action in social networks, Annual Conference of the Computational Social Science Society of the Americas, Santa Fe, NM.
- (Invited) September, 27, Novel approaches to environmental governance: Lessons learned from experimental methods. Public lecture Tatra banka foundation Malé Kongresové centrum SAV, Štefániková 3, Bratislava Bratislava, Slovakia
- September 22, The Irrigation Dilemma: An Agent-based Model based on Field Experiments, Annual conference of the European Social Simulation Conference, Montpellier, France
- September 16, The practice of multi-method research: Examples from Irrigation Governance, European conference of the International Association for the Study of the Commons, Plovdiv, Bulgaria
- (invited) September 16, Governing the global commons from the bottom-up, Keynote Speech, European conference of the International Association for the Study of the Commons, Plovdiv, Bulgaria
- (invited) September 12, Field experiments to study and enhance collective action on governing the commons, Seminar, International Food Policy Research Institute, Washington D.C.
- (invited) April 22, Governance of Social-Ecological Systems, Seminar, Center for Law and Global Affairs, Tempe, Arizona State University
- (invited) April 7, Complexity and collective action experiments, Seminar, School of Computation, Informatics and Decision Science and Engineering, Tempe, Arizona State University
- March 10, The impact of uncertainty on collective action in irrigation experiments, Resilience 2011, Tempe, Arizona

2010

- November 6 *Vulnerability of Social Norms to Incomplete Information*, Computational Social Science Conference, Tempe, Arizona State University
- (invited) September 7 – *Towards collective action among social simulators* – keynote address at the World Conference of Social Simulation, Kassel, Germany
- September 7 *Evolution of cooperation in asymmetric commons dilemmas*, World Conference of Social Simulation, Kassel, Germany
- September 17 *Using experiments in the study of collective action and the commons*, Seminar, School of Arts, Media and Engineering, Arizona State University
- (invited) September 1 *Dynamics of Rules and Resources*, Institute for Social Complexity, Groningen University, The Netherlands

August 25, *Reflections on the problem of fit*, International Society for Ecological Economics Conference, Oldenburg, Germany

August 23, *The challenges of context in experimental studies of commons dilemmas*, International Society for Ecological Economics Conference, Oldenburg, Germany

August 23, *Efficiency and Equity in Asymmetric Commons Dilemmas*, International Society for Ecological Economics Conference, Oldenburg, Germany

(invited) May 27 *Institutional rules and collective-choice processes*, Lund University, Lund, Sweden, Workshop on Collective Action from Different Perspectives

(invited) May 24 *Ecological Dynamics in Common Pool Resource Experiments*, Beijer Institute for Ecological Economics, Royal Academy of Sweden, Stockholm, Sweden, Workshop of Behavioral Economics and Nature Network.

(invited) May 21 *Understanding the fit between institutional, ecological and social dynamics*, University of California Davis, Environmental Science and Policy Program

2009

October 24, *The Evolution of Rules in Shedding type of Card Games*, Annual meeting of the North American Association for Computational Social and Organizational Science, Tempe, Arizona.

(invited) July 28, *Efficiency and Equity in Asymmetric Commons Dilemmas*, Laboratoire Montpelliérain d'Economie Théorique et Appliquée, Seminar, University of Montpellier

(invited) July 13, *Pattern Oriented Modeling of Commons Experiments*, seminar, EAWAG, Zurich, Switzerland

(invited) July 10, *Multi-methods to study institutional diversity*, CIRAD, Montpellier, France

(invited keynote) June 30, Key note speaker, *The Fit between Institutions and Ecosystem Dynamics*, at the eighth biennial conference of the European Society for Ecological Economics (ESEE), June 29 – July 2, 2009, at the Biotechnical Faculty, University of Ljubljana, Slovenia.

June 19, *The Fit between Institutions and Ecosystem Dynamics*, GREEN Team, CIRAD, Montpellier, France

June 4, *Asymmetric Commons games in the laboratory and the field*, Workshop on the Workshop, Indiana University

(invited) April 30 – May 3, *Crafting institutions of social-ecological systems in the lab*, Workshop on Context and the Evolution of Mechanisms for Solving Collective Action Problems, Indiana University

(invited) March 10, *Governing the commons in the lab and field experiments*, Seminar Initiative in Population Research, Ohio State University

2008

(invited) November 21, *The Fit between Institutions and Ecological Dynamics*, Workshop of the Latin American Field Experiments Network at the University de los Andes, Bogota, Colombia, November 20-21, 2008

October 29, *Coordination and Cooperation in Asymmetric Commons Dilemmas in the Lab and the Field*, seminar at the Workshop in Political Theory and Policy Analysis, Indiana University

(invited) August 13, *Translating local opportunities to meet global challenges*, at the workshop 'The Long Haul: Navigating the Energy Transition to Limit Climate Change', Dunsmuir Lodge (Victoria BC), August 11-13, 2008

(invited) July 29, 2008, with Daniel Castillo, *Cambiande las reglas del juego*, International ARIDnet workshop, San Cristobal de las Casas, Chiapas, Mexico, July 26-30

July 16, 2008, *Share your models at openabm.org*, World Conference on Social Simulation, Fairfax, Virginia, USA

July 15, 2008, *Pattern-oriented modeling of commons dilemma experiments*, World Conference on Social Simulation, Fairfax, Virginia, USA

April 15, 2008, *Population aggregation in the ancient American Southwest*, Resilience 2008, Stockholm, Sweden.

April 14, 2008, *Changing the rules of the game*, Resilience 2008, Stockholm, Sweden.

March 28, 2008, *Population aggregation in the ancient American Southwest*, at the annual meeting of the Society of American Archaeology, Vancouver, Canada

(invited) February 22-23, 2008, *Self-governance of a Spatial Explicit Real-time Dynamic Common Resource: A Content Analysis of Communication Patterns*, Social Dilemma Conference, Florida State University, Tallahassee

2007

(invited) October 22, 2007, *Changing the rules of the game: experiments with humans and virtual agents*, *Talk series on Complex Systems and Networks*, Indiana University

(invited keynote) September 10, 2007, Changing the rules of the game: experiments with humans and virtual agents, *Annual conference of the European Social Simulation Association*, Toulouse, France

August 2, 2007, Changing the rules of the game in commons dilemmas, *Seminar*, Department of Economics, University de los Andes, Bogota, Colombia

(invited) June 18, 2007, Robustness of social-ecological systems, *Resilience and Development workshop*, Oxford University, Oxford, UK

(invited) May 2007, Scholarly Networks on Resilience, Vulnerability, and Adaptation within the Human Dimensions of Global Environmental Change, 2007 *Amsterdam Conference on the Human Dimensions of Global Environmental Change*, Amsterdam, May 24-26

(invited) May 2007, semi-plenary talk, Going Beyond Panaceas in the Governance of Social-ecological Systems, 2007 *Amsterdam Conference on the Human Dimensions of Global Environmental Change*, Amsterdam, May 24-26

(invited keynote) March 2007, Keynote address, Towards a community frameworks for agent-based modelling, *Third International Model-to-Model workshop*, Marseille, France

March 6, 2007, Evolution of cooperation and altruistic punishment when retaliation is possible, *Mathematics and Cognition colloquium*, Arizona State University

March 2007, Model archive, *Integrating Socio-Ecological Sciences Through a Community Modeling Frameworks*, NSF sponsored workshop at Arizona State University

January 2007, Dynamics of Rules in Commons Dilemmas, *Social and Socio Environmental Dynamics conference*, Arizona State University

2006

November 17, 2007, Dynamic-persistence of cooperation in public good games when group size is dynamic, *Biomathematics seminar*, Department of Mathematics, Arizona State University

August 2006, Hominids foraging in a complex landscape: Could Homo ergaster and Australopithecus boisei meet the calories requirements?, *First World Congress on Social Simulation*, Kyoto Japan.

(invited) August 2006, Dynamics of rules in commons dilemmas, *Empirical Agent-based modeling workshop*, Magnetic Island, Australia, 14-18 August

July 2006, Dynamics of rules in commons dilemmas, *seminar at Santa Fe Institute*, Santa Fe

June 2006, Dynamics of rules in commons dilemmas, *invited talk for Economics and Marketing departments*, University of Groningen, the Netherlands

May 2006, Commentary on Institutional Change in Europe, *Vincent Ostrom: the Quest to understand human affairs*, Indiana University, Bloomington

January 2006, Dynamics of rules in commons dilemmas, *8th Annual CAP LTER Research Poster Symposium*

(invited) January 2006, Dynamics of rules in commons dilemmas, *Workshop on testing Different Theories of Individual Behavior in Social Dilemmas*, Max Planck Institute, Germany

2005

December, 2005, Robustness of Social-Ecological Systems, and Institutional Adaptation, *Next Generation Simulations of Human-Environmental Interactions Workshop*, Univ of Arizona, Tuscan

November, 2005, Computer Simulation of Social Phenomena, *Seminar*, Partnership for Research in Spatial Modeling (PRISM), Arizona State University

October, 2005, Institutional Change in Social-Ecological Systems, *6th open meeting of the International Human Dimensions Program of Global Change*, Bonn, Germany

(invited) October, 2005, Scholarly Networks on Resilience, Vulnerability, and Adaptation within the Human Dimensions of Global Environmental Change, the *6th Open meeting of the International Human Dimensions Programme on Global Change*, Bonn, Germany

November, 2005, Games and Gossip, *AI Lunch Bunch seminars*, Department of Computer Science and Engineering, Arizona State University

September, 2005 Dynamics of Rules in Commons Dilemmas, *2005 PI meeting of the NSF Human and Social Dynamics Programme*, Washington DC

September, 2005, Empirically-based Agent-based modelling, *Mathematics and Cognition Seminar*, Arizona State University

June 2005, Foraging of *Homo ergaster* and *Australopithecus boisei* in East African Environments, *Annual meeting of the NAACSOS*, Notre Dame University

June 2005, Empirically-based Agent-based modelling, *Empirically-based Agent-based modeling workshop*, Indiana University, Bloomington

(invited) April 2005, Social-Ecological Networks, *Meeting on Multiple overlapping networks*, Santa Fe Institute, Santa Fe

(invited) March 2005, Dynamics of rules in commons dilemmas, *Meeting on Social Norms and Social networks*, organized by Santa Fe Institute, held at Boston University

(invited) March 2005, Governing Social-ecological systems, *Colloquia Series*, Department of Anthropology, Arizona State University, Tempe

(invited) February 2005, Scholarly networks on resilience, vulnerability and adaptation within the human dimensions of global environmental change, *Key Challenges for Human Dimensions Research*, February 9-12, 2005, Arizona State University, Tempe

2004

(invited) October 2004 Governance of Social-Ecological Systems, *Complexity seminar*, University of Alaska, Anchorage

(invited) October 20, 2004 Robustness of Social-Ecological Systems to Spatial and Temporal Variability, *Seminar*, University of Alaska, Fairbanks

September 27, 2004, Coordination in Social-Ecological Networks: The Case of Irrigation on Bali, Fall 2004 *Talk series on Complex Systems and Networks*, Indiana University

September 20, 2004, Understanding Coordination in the Bali Irrigation System, *Seminar at Workshop in Political Theory and Policy Analysis*, Indiana University

September 14, 2004, Governance of Social-Ecological Systems, *Biocomplexity Seminar*, Physics Department, Indiana University

August, 13, 2004, Robustness of Social-Ecological Systems to Spatial and Temporal Disturbance Regimes, *The Tenth Biennial Conference of the International Association for the Study of Common Property*, Oaxaca, Mexico

July 12, 2004, Robustness of Social-Ecological Systems to Spatial and Temporal Disturbance Regimes, *Biannual conference of the International Society of Ecological Economics*, Montreal, Canada

June 3, 2004, Robustness of Social-Ecological Systems to Spatial and Temporal Disturbance Regimes, *Workshop on the Workshop 3*, Indiana University, Bloomington

June 3, 2004, Robustness Analysis of the Dutch Water Management between 800-1800, *Workshop on the Workshop 3*, Indiana University, Bloomington

May 21, 2004, Governance of Social Ecological Systems, *Workshop on Agent-Based Computational Economics Handbook*, Michigan University, Ann Arbor.

May 18, 2004, Adaptation and Resilience in Rangelands Social-Ecological Systems, *Second CABM/HEMA Workshop "Exploring Human Ecosystems: the new scientific challenge"*, Australian National University, Canberra Australia.

May 15, 2004, Trust and cooperation, *Agistment networks workshop*, Thredbo, Australia.

May 11, 2004, Robustness of Social-Ecological Systems: some lessons from CIPEC case studies, *Case study workshop of Resilience Alliance*, Nagambie, Australia

March 2, 2004, Robustness and adaptive capacity in social and ecological systems, *Department of Ecology and Evolutionary Biology*, Princeton University, Princeton, NJ

February 9, 2004, Cooperation in Commons Dilemmas and the Role of Information, Motivation and Trust, *School of Informatics*, Indiana University, Bloomington, IN.

2003

October 26, 2003, Robustness of Social-Ecological Systems to Spatial and Temporal Disturbance Regimes, *Robustness of Ecosystems*, Santa Fe Institute, Santa Fe (NM)

3-4 October, 2003, How a Change in Rules Can Affect Behavior and Outcomes: Goons, Guards, and Outcomes in Hockey, *The Society for Evolutionary Analysis in Law, 6th Annual Scholarship Conference*, Indiana University School of Law, Bloomington

19-21 September, 2003, Adaptation vs. Anticipation in Linear Public Good Games, Paper presented at the *First Conference of the European Social Simulation Association*, Groningen University, Groningen, The Netherlands

May 13, 2003, Agent based Modeling and Natural Resource Management, Center for Environmental Studies, Arizona State University, Tempe AZ

April 24, 2003, Agent based Modeling of Land use land cover change, *Lunch Seminar*, School of Marine Sciences, University of Maine, Orono, Maine

April 16, 2003, Validation of land use change models: Towards a practical framework, at *International conference: Framing Land Use Dynamics*, Utrecht University, Utrecht, The Netherlands

(invited) April 3, 2003, Agent-based modelling and land use land cover change, *Lunch Seminar at National Institute for Public Health and the Environment*, Bilthoven, the Netherlands

(invited) April 3, 2003, Robustness, Institutions and Environmental Management, at *Workshop on new modelling approach for sustainable development*, National Institute for Public Health and the Environment, Bilthoven, the Netherlands

March 31, 2003, Comparing Behavioural Models on Experimental Data from Public-Good Games, at *International workshop, Model to Model*, Organized at Groupement de Recherche en Economie Quantitative d'Aix-Marseille, Marseille, France

(invited) May 16, 2003, Design principles for robustness of institutions in social-ecological systems, *Robustness of Coupled Human-Environmental Systems*, Workshop, Santa Fe Institute, Santa Fe, NM

(invited) July 11-12, 2003, Laboratory Experiments and Agent-based Modeling, First *CABM/HEMA Workshop "Agent-Based Modelling of Social, Economic and Biophysical Systems"*, Melbourne, Australia

(invited) March 27, 2003, Predicting Change or Assessing Resilience of Social-Ecological Systems? Challenges and Opportunities for Sustainable Impact Assessment Modeling, at *Sustainability Impact Assessment of Trade Agreements and New Approaches to Governance*, EU Workshop, Louvain-La Neuve, Belgium.

January 25, 2003, Adaptation and Anticipation, at *Research Group Workshop on Testing Theoretical Models of Individual Behavior in Dynamic Social Dilemmas*, Indiana University, Bloomington

2002

December 9, 2002, Governing Resilience of Social-Ecological Systems, *Geography colloquium*, Indiana University.

September 10, 2002, Adaptive capacity in social and biological systems, *Resilience Alliance meeting*, University of Wisconsin.

May 10, 2002, Adoption of a New Regulation for the Governance of Common-Pool Resources by a Heterogeneous Population, *Computational Social Sciences conference* in Lake Arrowhead.

March 9, 2002, Implications of spatial heterogeneity of grazing pressure on the resilience of rangelands, *Spatial Resilience meeting*, Santa Fe Institute, Santa Fe.

2001

November, 2001, Robust strategies for managing rangelands with multiple stable states, *Colloquium*, Department of Spatial Economics, Vrije Universiteit Amsterdam

November, 2001, Using artificial agents to understand laboratory experiments of common-pool resources with real agents, *Colloquium*, Department of Economics, University of Amsterdam

September, 2001, Co-evolution of cognitive strategies and the environment. Simsoc 5 meeting on "*Frontiers in Social Sciences Simulations*" in Kazimierz Dolny (Poland), September 21-23, 2001.

August, 2001, Critical factors that foster local self-governance of common-pool resources, *Annual Resilience Alliance Meeting*, Chang Mai, Thailand

June 2001, Multi Agent Simulation of the Behavioural Dynamics Behind the Innovation Diffusion of "Green" Products. *Eurosim 2001: Shaping the Future with Simulation, the 4th International EUROSIM Congress*, Delft, The Netherlands, 26 - 29 June.

(invited) May, 2001, Changing the rules of the game: Modelling selforganization of institutions: inspiration from immunology and linguistics, *The Abisko 2001 Workshop on Emergence, Transformation, and Decay in Socio-Natural Systems*, Abisko, Sweden, May 20-23

Service

National

- National Science Foundation Panel (2008, 2011)
- Invited participant at Workshop on Future Priorities for the Climate Change Science Program, Committee on Strategic Advice on the CCSP, National Research Council, March 19-20, 2008, Boulder, Colorado

University

- University Senate (2009/2010; 2010/2011)
- Search committee for two Applied Mathematics for Life and Social Sciences faculty (2010)

School of Human Evolution and Social Change

- Colloquia organization (2005/2006; 2006/2007)
- Personnel Committee (2005/2006; 2006/2007)
- Honors committee (2005/2006)
- Chair Hiring committee Academic Professional (2005/2006)
- Chair Hiring committee Coordinator Senior CSID (2006/2007)
- Search committee two Assistant Professors CSID (2006/2007)
- Search committee Research advance person CBSC (2009)
- Search committee Assistant to the Director CSID (2011)
- Research committee SHESC (2008/2009; 2009/2010)
- (Associate) Director CSID (since August 2007)
- executive committee for the Applied Mathematics for the Life and Social Sciences PhD degree (since December 2008)
- School's Computer Committee (2009/ 2010; 2010/2011)

School of Computing and Informatics

- Informatics Certificate curriculum committee (2005/2006; 2006/2007)
- Affiliate Faculty Evaluation Committee of School of Computing and Informatics (2007)

Professional Service

Editorial:

- Associate editor-in-chief of Ecology and Society (since 2005)
- Member of editorial board Conservation Ecology (2003)
- Member of editorial board Ecology and Society (2004)
- Member of editorial board Global Environmental Change (since 2007)
- Associate editor Advances in Complex Systems (since 2010)

Professional organizations

- International Association for the Study of the Commons
 - organizer of North American conference September 2010
- Computational Social Science Society of the Americas
 - secretary (2010-2011)
- Resilience Alliance
 - Scientific Board (2000-2004)
 - Board of Directors (2001-2004)

Professional organizations (member)

- American Association for the Advancement of Science
- Computational Social Science Society of the Americas
- European Social Simulation Association
- International Association for the Study of the Commons
- International Society for Ecological Economics
- Resilience Alliance
- The Society for Evolutionary Analysis in Law

Reviewer for the following journals

- Adaptive Behavior (2010)
- Advances in Complex Systems (2010, 2011)
- Agricultural Systems (2008)
- Agriculture, Ecosystems & Environment (2003)
- American Economic Review (2003, 2010)
- American Journal of Sociology (2003)
- American Political Science Review (2011)
- Annals of the Association of American Geographers (2003)
- Australian Journal of Agricultural and Resource Economics (2011)
- Autonomous Agents and Multi-Agent Systems (2008)
- Cognitive Systems Research (2005)
- Complexity (2001, 2006)
- Computational Economics (2008)
- Computational and Mathematical Organizational Theory (2010)
- Conservation Biology (2004)
- Conservation Ecology (1999, 2001, 2003)
- Conservation and Society (2007)
- Contemporary Economic Policy (2008)
- Current Anthropology (2007)
- Demography (2007)
- Eastern Economic Journal (2007)
- Ecohealth (2005, 2006)
- Ecosystems (2004, 2008-2010)
- Ecological Applications (2008)
- Ecological Economics (1995-2001, 2003, 2005-2011)
- Ecological Informatics (2008)
- Ecological Modelling (2006-2008)
- Ecology and Society (2004-2012)
- Economic Journal (2004)
- Environment and Development Economics (2004, 2005, 2009)
- Environmental and Planning A (1996)
- Environmental and Resource Economics (2000, 2001, 2005)
- Environmental Conservation (2010)
- Environmental Impact Assessment Review (1995)
- Environmental Management (2004, 2006, 2007)
- Environmental Modelling and Assessment (1997-1999, 2007, 2009)
- Environmental Modelling and Software (2002-2005, 2007, 2008, 2010, 2011)
- Environmental Science and Policy (2011)
- Experimental Economics (2012)
- European Journal of Operation Research (1999)

- Global Environmental Change (2005 - 2012)
- Global Policy (2010)
- IEEE Transactions on Evolutionary Computation (2007)
- Integrated Assessment (2000)
- International Journal of the Commons (2009, 2010)
- International Journal of Geographical Information Systems (2003, 2005)
- International Journal of Risk Assessment and Management (2008)
- Journal of Artificial Societies and Social Simulation (1999, 2000, 2003, 2005, 2007, 2009)
- Journal of Cleaner Production (2003)
- Journal of Economic Behaviour and Organization (2006, 2008, 2011)
- Journal of Economic Dynamics and Control (2008)
- Journal of Environmental Economics and Management (2004, 2007)
- Journal of Environmental Management (2006, 2007, 2010)
- Journal of Evolutionary Economics (2005)
- Journal of Industrial Ecology (2004)
- Journal of Land Use Science (2005)
- Journal of Natural Resources Policy Research (2009)
- Journal of Politics (2008)
- Journal of Public Economics (2011, 2012)
- Journal of Theoretical Biology (2006, 2007)
- Landscape Ecology (2011)
- Landscape and Urban Planning (2007)
- Mathematical Biosciences (2006)
- Nature Climate Change (2011)
- Papers in Regional Science (2001, 2002)
- Philosophical Transactions of the Royal Society B (2001)
- Physica A (2009)
- Political Research Quarterly (2008)
- Policies Studies Journal (2010)
- Population and Environment (2011)
- Proceedings of the National Academy of Sciences USA (2007-2009, 2011)
- Publius (2011)
- Resource and Energy Economics (2012)
- Science (2008, 2010)
- Simulation (2004, 2006, 2008)
- Simulation and Gaming (2005)
- Social Networks (2012)
- Social Science Review (2008)
- Society and Natural Resources (2009)
- Structural Change and Economic Dynamics (2003)
- Structure and Dynamics (2010)
- Technological Forecasting and Social Change (2007)
- Transactions on Intelligent Systems and Technology (2010)
- Topics in Cognitive Science (2008)
- Water Resources Research (2006)

Book reviews

- Princeton University Press (2007, 2010)
- Taylor and Francis (2009)

- John Wiley & Sons (2010, 2012)

Reviewer for the following organizations

- Austrian Science Fund (2004)
- European Science Foundation (2001, 2009)
- International Foundation for Science (2004)
- Maine Sea Grant Program (2003)
- Marsden Fund Council of the Royal Society of New Zealand (2011)
- MacArthur Foundation (2011)
- National Science Foundation (USA) (2002, 2003, 2008-2012)
- National Research Council (2007)
- Netherlands Organisation for Scientific Research (2001, 2009, 2010)
- Pelagic Fisheries Research Program (2009)
- Swiss National Science Foundation (2008)
- U.S.-Israel Binational Science Foundation (2010)

Advisory boards

- Member of the International Advisory Board, Groningen Center for Social Complexity Science, Groningen University (2011-)
- Member of the Advisory Board, Center for Trans-disciplinary Study of Institutions, Evolution and Policies, Slovak Academy of Sciences (2011-)
- European project

Workshop Organizer

- Chair of the North American Regional Meeting of the International Association for the Study of the Commons, September 30 – October 3 2010, Arizona State University, Tempe: <http://csid.asu.edu/USIASC2010>
- Organizer of Workshop “Lab and Field Experiments on diverse Social Dilemmas”, January 11-13, 2009, Arizona State University, Tempe
- Organizer of Workshop “Dynamics of Institutions in water Resource Management”, January 9-11, 2008, Arizona State University, Tempe
- Co-Organizer of Workshop “Going beyond panaceas”, January 2007, Arizona State University, Tempe
- Organizer of Workshop on “Empirically-based Agent-based Modeling”, Indiana University, June 2-4, 2005, Bloomington
- Organizer of 6 sessions on “Historical Institutional Analysis on Robustness of Social-Ecological Systems” during the Workshop on the Workshop 3, June 2-6, 2004, Indiana University, Bloomington
- Co-Organizer of First Conference of the European Social Simulation Association: theoretical and empirical foundations of agent architectures, September 18-21, 2003, Groningen, the Netherlands.
- Economics of Industrial Ecology, special sessions as part of the international conference “The Science and Culture of Industrial Ecology”, Leiden, the Netherlands, 12-14 November, 2001
- Organiser plenary session on Complexity at the International Conference of Ecological Economics, July 2000, Canberra, Australia.

Program Committees

- Member program committee of the Track on Applications in Social Science and Organization at the Winter Simulation Conference 2012 “Winter Simulation Goes Europe”, Berlin, 9-12 December 2012
- Member of Science committee of the European Social Simulation Association 2012, University of Salzburg, Austria, September 10-14, 2012
- Member of the Program Committee of the 13th International Workshop on Multi-Agent Based Simulation, June 4, Valencia, Spain.
- Member of Program Committee of 26th European Conference on Modelling and Simulation (ECMS 2012), Koblenz-Landau University May 29 - June 1, 2012
- Member of Program Committee of the 2th Social Simulation and Modelling workshop, Lisbon, Portugal, October 2011
- Member of Organizing Committee, Annual Conference of Computational Social Science Society of the Americas, Santa Fe, NM, October 2011
- Member of the Scientific Committee of the 9th Conference of the European Society for Ecological Economics, Istanbul, Turkey, June 2011
- Member of the Program Committee of the 12th International Workshop on Multi-Agent Based Simulation, May 2-6, 2011, Taipei, Taiwan.
- Member of the Programme Committee member of Artificial Economics 2011, the Hague, the Netherlands, 1-2 September, 2011
- Member of the Program Committee of 2011 Agent-Directed Simulation Symposium, Boston, April 4-7, 2011
- Member of the Program Committee of Resilience 2011, Arizona State University, Tempe, March 2011,
- Member of the Program Committee of the Second Brazilian Workshop on Social Simulation (BWSS 2010), Sao Bernardo do Campo, Brazil, 23-28 October, 2010
- Member of the Scientific Committee of the 6th International Conference in Artificial Economics, Treviso, Italy, September, 2010
- Member of the Scientific Committee of the 11th World conference on Ecological Economics, Brehmen, Germany, August 2010
- Program Committee member for the Ninth International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS-09), Toronto, May 10-14, 2010
- Member of the Program Committee of the 11th International Workshop on Multi-Agent Based Simulation, May 10-14, 2010, Toronto, Canada.
- Member of the Program Committee of the Agent-directed Simulation Symposium, Orlando, April 12-14, 2010
- Member of the Scientific Committee of the annual conference of the European Social Simulation Association, September 2009, University of Surrey, Guildford, UK
- Member of the Scientific Committee of the 5th International Conference in Artificial Economics, Valladolid, Spain, September, 2009
- Member of the Programming Committee of the international workshop Agent-Based Social Simulation at Autonomics'09 (ABSS@Autonomics-2009), September 9-11, 2009, Lymmasol, Cyprus
- Program Committee member for the Eighth International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS-09), Budapest, May 10-15, 2009
- Member of the Program Committee of the Agent-directed Simulation Symposium, Santa Barbara, March 22-29, 2009

- Member of the Program Committee of the International Conference on Reputation, Gargonza, Italy, March 17-20, 2009
- Program Committee member for the Social Simulation workshop at the Twenty-first International Joint Conference on Artificial Intelligence, Pasadena CA, July 11-17, 2009
- Member of the Program Committee of the Third Edition of Epistemological Perspectives on Simulation, Lisbon, ISCTE, Portugal, October 2-3, 2008
- Member of Scientific committee of the Forth International Conference of Artificial Economics, Innsbruck, 2008
- Member of the Scientific Committee of the annual conference of the European Social Simulation Association, September 2008, Brescia, Italia
- Member of the Program Committee of the Second World Conference for Social Simulation, George Mason University, July 2008.
- Member of the Program Committee of the Ninth International Workshop on Multi-Agent-Based Simulation (MABS'08), associated with the seventh International Conference on Autonomous Agents and Multiagent-Systems, Estoril, Portugal, May 12-16, 2008
- Member of the Scientific committee of the Third International Conference on Artificial Economics, Palermo (Italy), September 2007
- Member of the Scientific Committee of the annual conference of the European Social Simulation Association, September 2007, Toulouse, France.
- Member of the Program Committee of eight international workshop on agent-based simulation, co-located with the sixth International Joint Conference on Autonomous Agents and Multiagent Systems, Hawaii, 2007
- Member of the Technical Committee of the Agent-Directed Simulation (ADS'07) Sponsored by: The Society for Modeling and Simulation International March 25 - 29, 2007 Norfolk, VA, USA
- Member of the Scientific Committee of the M2M2 "Model to Model 3" workshop, April 2007 in Marseille, France.
- Member of the Scientific committee of the Second International Conference on Artificial Economics, Aalborg (Denmark), September 2006.
- Member of the Program Committee of the First World Conference for Social Simulation, Kyoto, Japan, August 2006.
- Member of the Academic Review Committee of Biannual global conference of International Association for the Study of Common Property, Bali, Indonesia, June 19-23, 2006
- Member of the Program Committee of the 7th international Multi Agent Based Simulation workshop during the 5th international joint conference on autonomous agents and multiagent systems (AAMAS 2006), Future University-Hakodate, Japan, May 2006
- Member of the Scientific committee of Artificial Economics 2005: Symposium in Agent-based Computational Methods in Finance, Game Theory and their applications, Lille, France, September 29-30, 2005
- Member of the Program Committee of the 6th Multi Agent Based Simulation, Utrecht, The Netherlands, July 25-29, 2005
- Member of the Technical committee of Agent-Directed Simulation Symposium of the Spring Simulation Multiconference (SMC'05), Arlington, VA, 2-8 April 2005.

- Member of Scientific committee of CABM-HEMA-SMAGET 2005 Joint Conference on Multi-agent modelling for environmental management, Bourg-Saint-Maurice, France, March 21-25, 2005.
- Member of the scientific committee of the Second Conference of the European Social Simulation Association, Valladolid, Spain, September 16-19, 2004.
- Member of the Program Committee of the M2M “Model to Model” workshop, Valladolid, Spain, September 14-15 2004
- Member of the Program Committee of the 5th Multi Agent Based Simulation, New York City, July 19-23, 2004
- Member of review committee for sessions on Human Behaviour and Agent-Based Modelling of iEMSs 2004, International Environmental Modeling and Software Society, University of Osnabrück, Germany, June 14-17, 2004
- Member of the Program Committee of the 5th International Workshop on Agent-Based Simulation (ABS 2004), Lisboa, Portugal, 3-5 May 2004.
- Member of the Program Committee of the 4th Workshop on Multi Agent Based Simulation, Melbourne Australia, July 14-18, 2003.
- Member of the Program Committee of Agent-Based Simulation 4, Montpellier, France, April 28-30, 2003.
- Member of the Program Committee of the M2M “Model to Model” workshop, 31.March - 1st April 2003 in Marseille, France.
- Member of the Program Committee of the Third International Workshop on Multi-Agent Based Simulation, to be held at First International Joint Conference on Autonomous Agents and Multiagent Systems, 15-19 July 2002, Palazzo Re Enzo, Bologna, Italy
- Member of the International Program Committee of the Workshop on Artificial Immune Systems in the 2002 Congress on Evolutionary Computation held as part of the 2002 IEEE World Congress on Computational Intelligence, Honolulu, HI -- May 12-17, 2002

Varia

- Chairman of the Dutch Foundation for Scientific Symbiosis (Stichting Wetenschappelijke Symbiose) (Since 2000)
- Consultant for Nature Conservancy in summer 2006.

In the media

2010 – Science podcast:

<http://www.sciencemag.org/cgi/content/full/sci;328/5978/613/DC2>

2008 - One of the top 10 “Big Ideas” of ASU featured in ASU Alumni Magazine (September 2008)

2007 – Simulating Prehistoric Life, *American Archaeologist*, page 26-31, in Fall edition of 2007

2005 – Earth and Sky radio: <http://www.earthsky.org/article/marco-a-janssen-profile>

Impact assessment

Google Scholar Citations: <http://scholar.google.com/citations?user=rydyNDsAAAAJ>

Statistics of March 15, 2012:

	all	Since 2007
citations	5969	4405
h-index	37	31
I10-index	88	69