

Curriculum Vitae

11 May 2020

Personalia

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Home-page: <http://www.marcojanssen.info>

Education

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

Positions

2015(7)- Professor, School of Sustainability, Global Institute of Sustainability, Arizona State University
2010(7) - Director, Center for Behavior, Institutions and the Environment (was Center for the Study of Institutional Diversity till January 2015), Arizona State University
2010(7)-2015(6) Associate Professor, School of Human Evolution and Social Change, College of Liberal Arts and Sciences, 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(1) - Senior Sustainability Scientist, Global Institute 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

- 2015(1)-2017(12) Fellow of the strategic theme Institutions for Open Societies at
Utrecht University, Netherlands
- June 2012 Guest Professor, Department of Agricultural Economics, Humboldt
University, Berlin, Germany
- Sep/Oct 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
- Dec 2000 Visiting scientist CIRAD, Montpellier, France
- July 2000 Visiting scientist, CSIRO Sustainable Ecosystems, Canberra, Australia
- March 2000 Visiting scientist, Santa Fe Institute, NM, USA
- Mar/Jun1999, Visiting scientist, CSIRO Wildlife and Ecology, Canberra, Australia
- Jan/Feb 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 Yorke Society (2001)

Sponsored Research

- International Food Policy Research Institute, subaward, awarded 2017, (period 2017)
PI, \$20,000 (Games for Sustainability).
- National Science Foundation, awarded 2017 (period 2017 – 2021) **co-PI** \$1,500,000
(CNH-L: Social-Ecological Dynamics of Recreational Fishery Landscapes).
- National Science Foundation, awarded 2017 (period 2017 – 2021) **co-PI** \$690,551,
(Psychosocial, Motivational, and Cooperative Effects of Communication,
Enforcement, and Participatory Decision Making in Resource Dilemmas)
- National Science Foundation, awarded 2016 (period 2016 – 2019) **co-PI** \$1,014,593
(BD Spokes: SPOKE: WEST: Accelerating and Catalyzing Reproducibility in
Scientific Computation and Data Synthesis)
- International Food Policy Research Institute, subaward, awarded 2015, (period 2015)
PI, \$20,000 (Indian Groundwater Experiments).
- National Science Foundation, awarded 2014 (period 2014 - 2018) **Senior Personnel**
\$1,498,870 (The Dynamics of Multi-Scalar Adaptation in Megacities)
- National Science Foundation, awarded 2014 (period 2014 - 2017) **Senior Personnel**
\$1,949,788 (Resilience Simulation for Water, Power & Road Networks)
- National Science Foundation, awarded 2012 (period 2012 – 2015) **PI** \$500,000 (SCS –
Tipping Collective Action in Social Networks).
- 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** \$ 239,998 (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)
- University of Maine, awarded 2010 (period 2010-2014); **PI** \$40,000 (VCommons
adaptation for group selection experiments)
- 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))

Research and Teaching Interests

Janssen's research focuses on the interactions of behavior, institutions and the environment. He is interested how to find solutions to sustainability challenges especially related to the governance of common resources. His main applications include irrigation systems, ground water management and coupled infrastructure systems. He mainly uses computational models, like agent-based models, in combination with laboratory experiments, surveys, case study analysis and stakeholder workshops. His teaching focuses on agent-based modelling, the use of games for sustainability, and institutional analysis.

Courses Taught

Arizona State University

2020

- SOS 101 Introduction to Applied Mathematics in the Life and Social Sciences (Fall)
SOS 591 Agent-Based Modeling for Sustainability (Fall)
SOS 330 Sustaining the Commons (Spring)

2019

- SOS 101 Introduction to Applied Mathematics in the Life and Social Sciences (Fall)
SOS 494/598 Games for Sustainability (Fall)

2018

- SOS 101 Introduction to Applied Mathematics in the Life and Social Sciences (Fall)
SOS 591 Agent-Based Modeling (Fall)
SOS 394 Sustaining the Commons (Spring)

2017

- SOS 101 Introduction to Applied Mathematics in the Life and Social Sciences (Fall)
SOS 591 Agent-Based Modeling for Sustainability (Fall)
SOS 394 Sustaining the Commons (Spring)

2016

- SOS 101 Introduction to Applied Mathematics in the Life and Social Sciences (Fall)
SOS 591 Agent-Based Modeling for Sustainability (Fall)
SOS 394 Sustaining the Commons (Spring)
SOS 591 Multiple Methods in Practice (Spring)

2015

AML 520 Agent-Based Modeling (Fall)
AML 100 / SOS 101 Introduction to Applied Mathematics in the Life and Social Sciences (Spring)
AML 330/ASB 430 Social Simulation (Spring)

2014

AML 520 Agent-Based Modeling (Fall)
ASB 328 Rules, Games and Society (Fall)
AML 100 / SOS 101 Introduction to Applied Mathematics in the Life and Social Sciences (Spring)
AML 330/ASB 430 Social Simulation (Spring)

2013

AML 520 Agent-Based Modeling (Fall)
ASB 328 Rules, Games and Society (Fall)
AML 330/ASB 430 Social Simulation (Spring)
ASB 591 Experimental Social Science (Spring)

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

Young Joon Oh, public policy, October 2015-June 2016.

Andres Baeza, ecology, @SESYNC & @ ASU, October 2013 – August 2019

Lingfei Wu, communication studies, February 2014 – December 2015.

Irene Perez Ibarra, ecology, April 2010 – December 2014.

Jacopo Baggio, development studies, August 2011 – June 2015, currently assistant professor, Department of Environment and Society, Utah State University

Michael Schoon, public policy, September 2008-April 2010, currently associate professor, School of Sustainability, 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)

Dane Whittaker, Sustainability, (PhD, chair, in progress)

Manuela Vanegas Ferro, Biological Design (PhD, chair, in progress)

Skaidra Smith-Heisters, Environmental Social Science (PhD, chair, in progress)

Fan Wu, Applied Mathematics for the Life and Social Sciences (PhD, chair, 2019)

Joffa Applegate, Applied Mathematics for the Life and Social Sciences (PhD, chair, 2018), currently Research Professor at ASU

Madelyn Tyson, Sustainability (PhD, Chair, 2018), currently at Rocky Mountain Institute

Miles Manning, Applied Mathematics for the Life and Social Sciences (PhD, chair, 2017), currently at EyeTech

Sindy de la Torre, Environmental Social Science (PhD, chair, 2015), currently: Research Professor Political and Social Science, Autonomous University of Coahuila, Mexico

Kehinde Salau, Applied Mathematics for the Life and Social Sciences (PhD, co-Chair, 2013), currently: Data Scientist at JP Morgan Chase & Co

Nicholas Radtke, Computer Science and Engineering, Arizona State University (PhD, co-Chair, 2011), currently: senior software engineer KUBRA Data Transfer Ltd

Alessio Delre, Marketing, Groningen University, the Netherlands (PhD, co-Chair, 2007), currently: Associate Professor, Montpellier Business School, Montpellier, France

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)

Jack Pringle, Applied Mathematics in the Life and Social Sciences (PhD, Member, in progress)

Saurabh Biswas, Sustainability, (PhD, Member, in progress)

Hoon Shin, Environmental Social Science, Arizona State University, (PhD, Member, in progress)

Jaishri Srinivasan, Sustainability, Arizona State University, (PhD, Member, in progress)

Bingbing Zhou, Sustainability, (PhD, Member, 2020)

Elizabeth Tellman, Geography, Arizona State University, (PhD, Member, 2019)

Cathy Rubinos, Sustainability, Arizona State University, (PhD, Member, 2017)

Komi Mesan, Applied Mathematics in the Life and Social Sciences, (PhD, Member, 2017)

Simen Oestmo, Archaeology, Arizona State University, (PhD, Member, 2017)

Sean Bergin, Archaeology, Arizona State University (PhD, Member, 2016)

Oyita Udiani, Applied Mathematics in the Life and Social Sciences, (PhD, Member, 2016)

David Shanafelt, Life Sciences, Arizona State University (PhD, Member, 2016)

Jesse Sayles, School of Geographical Sciences & Urban Planning, (PhD, Member, 2015)

David Yu, School of Sustainability, Arizona State University (PhD, Member, 2015)

Prashanth Rajivan, Simulation, modeling and applied cognitive science, Arizona State University (PhD, Member, 2014)

Zachary Shaffer, Life Sciences, Arizona State University (PhD, Member, 2014)

Yun Ouyang, School of Sustainability, Arizona State University (PhD, Member, 2013)

Takao Sasaki, Life Sciences, Arizona State University (PhD, Member, 2013)

Joshua Watts, Archaeology, Arizona State University (PhD, Member, 2013)

Daniel Castillo Brieva, Environmental Management, University Paris X-Nanterre (PhD, Member, 2013)

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)

Margaret Anderies-Parker, (MS, chair, in progress)

Dane Whittaker, Sustainability, (MS, chair, 2020)
Druvil Patal, Computer Science and Engineering, Arizona State University (MS, Chair, 2018), moved on to Amazon Web Services, WA.
Steven Madler, Applied Mathematics for the Life and Social Sciences (MS, chair, 2017)
Shala Brown, Applied Mathematics for the Life and Social Sciences (MS, chair, 2016)
Nathan Rollins, Anthropology (MA, chair, 2012), currently webmaster at Global Institute of Sustainability, ASU
Alhaji Cherif, Applied Mathematics for the Life and Social Sciences (MA, chair, 2010), moved on to do a PhD 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)

Lyndsay Campbell, Neuroscience, (MS, Member, in progress)
Jordan Bates, Applied Mathematics for the Life and Social Sciences, Arizona State University (MA, Member, 2015)
Nicholas Gauthier, Archaeology, Arizona State University (MA, Member, 2015)
Alecia Radatz, Human and Social Dimensions of Science and Technology, Arizona State University (MA, Member, 2013)
David Shanafelt, Life Sciences, Arizona State University (MA, Member, 2012)
Deepak Barge, Computer Science and Engineering, Arizona State University (MS, Member 2010).
Seema Talele, Computer Studies, Arizona State University (MA, Member, 2010)
Kehinde Salau, Applied Mathematics for the Life and Social Sciences, Arizona State University (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

Tara Sommers, Sustainability, intern Port of Mars, Summer 2020
Connor Cosgriff, Sustainability, intern Port of Mars, Summer 2020
Erin Epil, Sustainability, SURE program, Spring 2020
James Chabin, Sustainability, Fall 2019-Spring 2020 (Honors thesis, chair)
Alise Crippen, Sustainability, SURE program, Spring 2019-Spring 2020
Corinne Johnson, Sustainability, SURE program, Spring 2019-Spring 2020
Nicholas Tran, Computer Science, intern, Spring 2015
Whitney Mgbara, Applied Mathematics in the Life and Social Sciences, intern, Spring 2015
Rachael Gokool, Applied Mathematics in the Life and Social Sciences, REU, Spring, Summer, Fall 2015, Honors thesis Spring 2016

Juan Rodriguez, Applied Mathematics in the Life and Social Sciences, REU, Spring 2015
Lucian Dellacqua, Economics, intern, Fall 2014
Ben Prather, Physics, intern, Fall 2014 and Spring 2015
Christopher Luna, Physics, intern, Summer and Fall 2014, Spring 2015
Nicolas Mendoza, Anthropology, Intern, Spring 2014
David Linder, Biological Sciences, Honors thesis (chair), Spring 2014
Thomas Tuoti, Anthropology, Intern, Spring 2013
Mary Hayes, Applied Mathematics in the Life and Social Sciences, Intern, Fall 2012
Mirna Hodzik, Global Health, REU, Fall 2011/Spring 2012 (chair honors thesis)
Shawn FitzPatrick, Computer Science, REU, Summer/Fall 2011, Spring/Summer 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 Sciences, 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 5 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

- Winter School on Agent-based Modeling of social-ecological systems, 1 week, January 2018-2020, ASU
- Winter School on Modeling human behaviour in social-ecological systems, 1 week, January 2017, ASU
- Summer School on Sustainability at Beijing Normal University, 3 weeks, July/August 2015.
- Summer School on Modeling human behaviour in social-ecological systems, 1 week, July 2015, organized by UFZ, Germany
- Summer School on experimental methods and the commons at Humboldt University, Berlin, 3 weeks, June 2012

- Training course on multi-methods and the commons, Bratislava, Academy of Slovakia, 2 weeks, October 2011
- 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
- Applied Mathematics
- Biological Design
- Computer Science
- Complex Adaptive Systems
- Environmental Social Science
- Global Health
- Human and Social Dimensions of Science and Technology
- Informatics
- Mathematics
- Simulation, Modeling and Applied Cognitive Science
- Sustainability

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

Books

8. Chai, Y. and M.A. **Janssen** (2017) *Experiments on the Commons: A Micro-Behavioral Perspective*, Chinese Science Publishing and Media, (in Chinese).
7. Anderies, J.M. and M.A. **Janssen** (2013-) *Sustaining the Commons*, e-book, Center for Behavior, Institutional and the Environment, Arizona State University. Available at <http://sustainingthecommons.asu.edu/>
6. **Janssen**, M.A. (2010-) *Introduction to Agent-Based Modelling*, e-book, <http://www.openabm.org/book/introduction-agent-based-modeling>
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** (also published in Portuguese (2011), Spanish (2012) and Chinese (2012)).
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

9. Shivakoti, G.P., M.A. **Janssen**, and N.B. Chhetri (2019), Agricultural and Natural Resources Adaptations to Climate Change, ***International Journal of the Commons***, <https://www.thecommonsjournal.org/36/volume/13/issue/2/>
8. **Janssen**, M.A., T. Lindahl, and J.J. Murphy (2015) Advancing the understanding of behavior in social-ecological systems, results from lab and field experiments, ***Ecology and Society*** <http://www.ecologyandsociety.org/issues/view.php?sf=102>
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).

Articles (in review)

- 239 Yu, F*, and M.A. **Janssen**, How Behavior of users impact the success of online Q&A communities, submitted to *Advances in Complex Systems*.
- 238 Lindahl, T., M.A. **Janssen** and C. Schill, Controlled Behavioral Experiments, to be included in Handbook Methodology for Social-Ecological Systems Research.
- 237 Tellman, E., H. Eakin, B. Turner II, M.A. **Janssen** and F. de Alba, Institutional Entrepreneur and Informal Urban Land Transactions in Mexico City, submitted to *World Development*
- 236 Applegate, J.M., and M.A. **Janssen**, Job Mobility and Wealth Inequality, submitted to *Computational Economics*
- 235 **Janssen**, M.A., L. Gharavi and M. Yichao, Keeping up shared infrastructure on Port of Mars: An experimental study, submitted to *International Journal of the Commons*
- 234 Tyson*, M.H. and M.A. **Janssen** (in review) Do patents improve the innovation process? *Journal of Economic Behaviour and Organization*.
233. Schwarz, N., G. Dressler*, K. Frank, W. Jager, M.A. **Janssen**, B. Müller, M. Schlüter, N. Wijermans, and J. Groeneveld, Modelling human decision-making and behaviour in social-ecological systems: practical lessons learned and ways forward, submitted to *Environmental Modelling and Software*.

Articles (in press)

- 232 Ziegler*, J.P., S.L. Jardine, S.E. Jones, B.T. van Poorten, M.A. **Janssen** and C.T. Solomon, Transient dynamics create incentives for collective action groups to improve open-access common pool resources, accepted by *Ecology & Society*
231. **Janssen**, M.A., J.M. Anderies, A. Baeza, H.L. Breetz, T. Jasinski*, H.C. Shin*, and S. Vallury*, Highways as coupled infrastructure systems: An integrated approach to address sustainability challenges, accepted by *Resilience and Sustainable Infrastructure*

Articles

230. Oestmo, S., M.A. **Janssen**, and H. Cawthra (2020), Applying Brantingham's Neutral Model of Stone Raw Material Procurement to the Pinnacle Point Middle Stone Age Records, Western Cape, South Africa, accepted by *Quaternary Science Review* 235: 105901 <https://doi.org/10.1016/j.quascirev.2019.105901>
229. Wren, C.D., S. Botha, J. De Vynck, M.A. **Janssen**, K. Hill, E. Shook, J.. Harris, B.M. Wood, J. Venter, R. Cowling, J. Franklin, A. Potts, E.C. Fisher and C.W. Marean (2020), The foraging potential of the Holocene Cape South Coast of South Africa without the Paleaso-Agulhas Plain, *Quaternary Science Reviews*. 235: 105789; <https://doi.org/10.1016/j.quascirev.2019.06.012>
- 228 Shin, H.C.*, D.J. Yu, S. Park, J.M. Anderies, J. Abbott, M.A. **Janssen**, T.K. Ahn (2020), How do resource mobility and group size affect institutional arrangements for rule enforcement? A qualitative comparative analysis of fishing groups in South Korea, *Ecological Economics* 174: 106657, <https://doi.org/10.1016/j.ecolecon.2020.106657>
227. **Janssen**, M.A. (2020) Water sports, *The Mint*, 13: 39-41. <https://www.themintmagazine.com/water-sports>
226. Matthias, J.D., J.M. Anderies, J. Baggio, J. Hodbod, S. Huet, M.A. **Janssen**, M. Milkoreit and M.L. Schoon (2020), Beyond tipping points: exploring non-linear transition pathways of social-ecological systems, *Scientific Reports* 10, 4136 <https://doi.org/10.1038/s41598-020-59713-w>

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 6. **Janssen**, M.A. and W.J.M. Martens* (1997) Modeling malaria as a complex adaptive system, *Artificial Life* 3: 213-237.
 5. **Janssen**, M.A. (1997) Optimization of a non-linear dynamical system for global climate change, *European Journal of Operations Research* 99: 322-335.
 4. Filar, J.A., P.S. Gaertner* and M.A. **Janssen** (1996) An application of optimization to the problem of climate change, in *State of the Art of Global Optimization: computational methods and Applications* by C.A. Floudas and P.M. Pardalos (eds.), pp. 475-498, Kluwer Academic Publishers, Dordrecht/Boston/London.
 3. **Janssen**, M.A., J. Rotmans, and O.J. Vrieze (1995) Climate change: optimization of response strategies, *International Transactions in Operations Research* 2: 1-15.
 2. **Janssen**, M.A., and J. Rotmans (1995) Allocation of fossil CO2 emission rights quantifying cultural perspectives, *Ecological Economics* 13: 65-79.
 1. Elzen, M.G.J. den, M.A. **Janssen**, J. Rotmans, R.J. Swart and H.J.M. de Vries (1992) Allocating the remaining global carbon budget based on international and intergenerational equity throughout a sustainable world, *International Journal of Global Energy Issues* 4(4): 287-301.

Book reviews

7. Population-Based Survey Experiments, D.C. Mutz, *International Journal of the Commons* (2012) 6:1 70-71
<http://www.thecommonsjournal.org/index.php/ijc/article/view/332/253>
6. Supercooperators: Altruism, Evolution, and Why We Need Each Other to Succeed, Martin Nowak, *Journal of Artificial Societies and Social Simulation* (2011)
<http://jasss.soc.surrey.ac.uk/14/3/reviews/5.html>
5. Taming the Anarchy: Groundwater Governance in South Asia, Tushaar Shah, *Journal of Natural Resources Policy Research* (2010), 2(1): 100-101
4. The Kuhls of Kangra: Community-Managed Irrigation in the Western Himalaya, J. Mark Baker, *Agricultural History* (2007), 81(4): 562-563
3. Individual based Modelling and Ecology, Grimm, Volker and Steven F. Railsback, *Journal of Artificial Societies and Social Simulation* (2006)
<http://jasss.soc.surrey.ac.uk/9/4/reviews/janssen.html>

2. Complex Systems and Archaeology: Empirical and Theoretical Applications, Bentley, R. Alexander, and Herbert D.G. Maschner (editors), *American Journal of Archaeology* (2005) 109(3): 568-569
1. Modeling the Environment: An Introduction to System Dynamics Modeling of Environmental Systems. Andrew Ford. Island Press, *Ecological Economics* (1999), 31(3); 464-465.

Miscellaneous publications (reports, unpublished papers, conference proceedings on CD roms)

31. Rommel*, J. and M.A. **Janssen** (2019), Leading by example and endowment heterogeneity in local public good provisions: A frame field experiment in Hyderabad, India, CBIE Working paper 2019-002.
30. Shelton, R., M.A. **Janssen** and R. Meinzen-Dick (2018). Measuring learning from interventions through participatory processes, CBIE Working paper 2018-004.
29. Janssen, M.A. (2016) Social Dilemmas Are Only Part of the Story to Explain Overharvesting of Renewable Resources. CBIE Working paper 2016-002.
28. Salau*, K., J.A. Baggio, M.A. **Janssen**, and J.K. Abbott, and E.P. Fenichel (2015), Taking a Moment to Measure Networks – A Hierarchical Approach, <https://arxiv.org/ftp/arxiv/papers/1509/1509.07813.pdf>
27. Perez, I, J. Baggio, N. Rollins* and M.A. **Janssen** (2012), Cooperation in Asymmetric Commons Dilemmas, CSID Working paper #CSID_2012-012
26. Hohman+, N., and M.A. **Janssen** (2012) Addressing global sustainability challenges from the bottom up: The role of information feedback, CSID workpaper #CSID-2012-011
25. **Janssen**, M.A., A. Cherif*, A.M. Hurtado, M. Hurtado* and N. Rollins* (2010) The effect of behavioural change on tuberculosis epidemics: modeling helminthes loads and tuberculosis dynamics, unpublished manuscript
24. Palaniappan*, S., A. Sawhney, M.A. and **Janssen** (2007) Modeling Construction Safety as an Agent-Based Emergent Phenomenon, the 24th International Symposium on Automation & Robotics in Construction (ISARC–2007), Kochi, Kerala, India, during 19th – 21st September 2007.
23. Delre*, S.A., W. Jager, M.A. **Janssen** and T.H.A. Bijmolt (2006) Simulating the Motion Picture Market: why do the hits take it all? Proceedings of the First World Conference on Social Simulation, August 21-25, Kyoto, Japan, pp.305-312
22. **Janssen**, M.A. and A.M. York (2006) The niche of non-governmental organizations in a changing landscape of citizens' preferences, unpublished mimeo.
21. **Janssen**, M.A., J.M. Sept and C.S. Griffith (2005) Foraging of Homo ergaster and Australopithecus boisei in East African environments, paper presented at the Cennter for Computational Analysis of Social and Organizational Systems (CASOS) Summer Institute. June 25-30. Pittsburgh, P.A.
20. **Janssen**, M.A., A.M. York*, R.J. Caldanaro and S. Donnelly (2005) *Descriptive Statistics of the Monroe County Landowners Survey 2003*. CIPEC Working Paper CWP-05-02. Bloomington: Center for the Study of Institutions, Population, and Environmental Change (CIPEC), Indiana University.
19. Ahn, T.K., M.A. **Janssen**, D.S. Reinders* and J.E. Stake (2005), Learning to play nice: strategy evolution in the National Hockey League, unpublished mimeo

18. Berger, T., M. Goodchild, M.A. **Janssen**, S.M. Manson, R. Naijlis*, and D.C. Parker (2002) Methodological Considerations for Agent-Based Modeling of Land-Use and Land-Cover Change, p. 7-25, in D.C. Parker, T. Berger and S.M. Manson (eds.) *Agent-Based Models of Land-Use and Land-Cover Change*, LUCC Report Series No. 6, Louvain-la-Neuve, Belgium
17. de Vries, H.J.M., D.P. van Vuuren*, M.G.J. den Elzen and M.A. **Janssen** (2001) *The Timer Image Energy Regional Model, Technical Documentation*, Report 461502024, National Institute for Public Health and the Environment, Bilthoven, the Netherlands.
16. **Janssen**, M.A., and Jager, W. (2001). Co-evolution of cognitive strategies and the environment. Paper presented at Simsoc 5 meeting on "Frontiers in Social Sciences Simulations" in Kazimierz Dolny (Poland), September 21-23, 2001
15. van Beukering*, P.J.H., J.C.J.M. van den Bergh, M.A. **Janssen** and H. Verbruggen (2000), International Material-Product Chains: an alternative perspective on international trade and trade theories, Tinbergen Institute discussion paper TI 2000-034/3
14. Nakićenović N et al {contributing author: M.A. **Janssen**} (2000) IPCC special report on emissions scenarios, Cambridge University Press, Cambridge, UK
13. Jager*, W., **Janssen**, M.A., Vlek, C.A.J. (1999) Consumats in a commons dilemma. Testing the behavioural rules of simulated consumers. COV report no. 99-01. Groningen: Centre for Environment and Traffic Psychology, University of Groningen.
12. **Janssen**, M.A. and J.C.J.M van den Bergh (1999), SIMBIOSES-Modelling industrial metabolism in a regionalised economic system, Tinbergen Institute discussion paper, TI 99-060/3
11. Leemans, R. E. Kreileman, G. Zuidema, J. Alcamo, M. Berk, G.J. van den Born, M. den Elzen, R. Hootsmans, M. **Janssen**, M. Schaeffer*, S. Toet* and B. de Vries (1998), The IMAGE User Support System: Global Scenarios from IMAGE 2.1, RIVM Publication 4615006, Bilthoven, the Netherlands, (CD-ROM).
10. **Janssen**, M.A. (1997), 'Geïntegreerde modellering van Mens en Milieu', Nieuwsbrief Milieu en Economie, jaargang 11, nr. 1, blz 7.
9. Berk, M.M. and M.A. **Janssen** (1997), The Interactive Scenario Scanner: a Tool to Support the Dialogue between Science and Policy on Scenario Development, RIVM Report No. 481508005, Bilthoven, the Netherlands
8. Vries de, H.J.M. and M.A. **Janssen** (1996), 'Global Energy Futures: An integrated systems perspective with the TIME-model', GLOBO Report Series no. 18, 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.

Conference Presentations (since 2001)

2019

October 10, The Catalog App: Cataloging Individual-based and agent-based models, COMSES 2019

September 24 (Invited) Agent-based Modeling of Humans and their Environment, Panel talk, Geological Society of America, Phoenix September 23-

August 6 (Invited) Agent-based Modeling of Humans and their Environment, is-geo.org/ Intelligent Systems for Geosciences community Webinar.

July 3, Port of Mars: Experiments to govern shared resources in extreme conditions, Biennial conference of the International Association for the Study of the Commons (IASC), Lima, Peru, July 1-5.

June 20, What Does a Framed Field Experiment on Community Forestry Leave Behind in India? A Qualitative and Quantitative Exploration, WOW6 June 19-21, Indiana University.

June 4 (invited), Conditions for Self-Governance of the Commons, Keynote Address at the International Conference of Social Dilemmas, Sedona, Arizona, June 3-7.

2018

November, "Tragedy of the Commons" as conventional wisdom in sustainability education, at First Virtual IASC Conference: <https://www.iasc-commons.org/iasc-virtual-conference-2018-welcome>

June 25, Governing the vulnerabilities of urban infrastructure to water scarcity and flooding – The example of Mexico City, International Congress on Environmental Modeling and Software, June 24-28, Fort Collins,

April 9 (invited), Governing the vulnerabilities of urban infrastructure to water scarcity and flooding – The example of Mexico City, Seminar, Center for Sustainability Solution, University of Maine.

2017

December 4 (invited) Playing games to save water, Colloquium @ Ostrom Workshop, Indiana University, Bloomington

November 11, Round table Drylab 2023, 2017 Society for Literature, Science and the Art Conference, Tempe, November 9-12, 2017.

September 13 (invited), Governing the vulnerabilities of urban infrastructure to water scarcity and flooding – The example of Mexico City, seminar at Utah State University

August 21, Governing the vulnerabilities of urban infrastructure to water scarcity and flooding – The example of Mexico City, Resilience 2017, Stockholm, Sweden, Augustus 21-23.

July 14, Collective action of research data archiving: The computational model library, Biannual conference of the International Association for the Study of the Commons, Utrecht, the Netherlands, July 10-14.

July 12, Drylab 2023, Video presentation and discussion, Biannual conference of the International Association for the Study of the Commons, Utrecht, the Netherlands, July 10-14.

July 11 Governing the vulnerabilities of urban infrastructure to water scarcity and flooding – The example of Mexico City, Biannual conference of the International Association for the Study of the Commons, Utrecht, the Netherlands, July 10-14.

May 23, (invited keynote), Two Modelling Cultures, CSDMS annual meeting 2017: Modeling Coupled Earth and Human Systems - The Dynamic Duo, Boulder Colorado, United States

March 17, research colloquium, Division of Resource Economics, Humboldt University, Berlin, Germany, Multi-method design and the use of experimental games in research

March 16, seminar, Albrecht Daniel Thaer-Institute, Humboldt University, Berlin, Germany, Governing the vulnerabilities of urban infrastructure to water scarcity and flooding – The example of Mexico City.

2016

December 12, Impact of Diverse Behavioral Theories on Environmental Management: Explorations with Daisyworld, *2016 Winter Simulation Conference*, Washington D.C.

June 23 (invited keynote), The fragility of cooperation in a globalizing world, symposium ‘Cooperation in the field’, Utrecht University

June 4, Collective Action for Water Governance in Mexico City, 9th INAS (International Network of Analytical Sociologists) Conference: “Understanding institutions and sustainable cooperation”, June 3-4, Utrecht University.

June 2 (invited keynote) Governing global climate change from the bottom up, COST InoGov: New directions in climate policy and governance: polycentricity in action, June 1-3, SPECTRA, Slovak University Of Technology And Slovak Academy Of Sciences, Bratislava, Slovakia

May 23 (invited) How can social science methods be scaled to the global level? Workshop: Linking Earth System Dynamics and Social System Modeling, 23-25 May 2016, Boulder, Colorado.

2015

December 4 (invited) Building Institutions for Groundwater Governance in Andhra Pradesh, India; at The 8th Annual Dupont Summit 2015 on Science, Technology, and Environmental Policy, Washington DC.

September 30, Current Archiving Practices with Agent-Based Models, at Conference on Complex Systems ‘15, Tempe, Arizona

September 23 (invited) Fragility of cooperation in a world of change, seminar at Morrison School, Polytech campus, Arizona State University

August 12 (invited) Fragility of cooperation in a world of change, seminar at Chinese Academy of Agricultural Sciences, Beijing, China.

August 4 (invited) Fragility of cooperation in a world of change, seminar at Guangdong University of Finance & Economics, China.

July 29 (invited) Empirically grounded agent-based models for collective action, seminar in School of Systems Science, Beijing Normal University, China.

June 25 (invited) Fragility of cooperation in a world of change, lecture at graduate program on complex adaptive systems, Wageningen University, the Netherlands.

June 17 (invited) Fragility of cooperation in a world of change, seminar at the workshop Understanding cooperation: a multidisciplinary perspective, Utrecht University, the Netherlands.

May 27, Using agent-based models to compare behavioral theories on experimental data of irrigation games, Bi-annual conference of the International Association for the Study of the Commons, Edmonton, Canada

May 4, Playing games to save water, invited talk at the workshop Innovations in Sustainable Food Systems: Improving Youth Engagement and Entrepreneurship on the Farm and Beyond, Arizona State University.

May 1 (invited) Fragility of cooperation in a world of change, seminar at the School of Sustainability, Arizona State University

- April 29 (invited) Fragility of cooperation in a world of change, seminar at the International Food Policy Research Institute, Washington DC.
- April 17 (invited) The role of information in governing social-ecological systems, Economic Sciences Institute, Lecture series, Chapman University
- April 7 (invited) The conditions of Self-governance of the Commons, seminar, Public Health Dynamics Laboratory, University of Pittsburgh.

2014

- November 13 (invited), The Fragility of Cooperation in Contemporary Irrigated Agriculture, IHOPE-Maya Society as a Complex System, Arizona State University
- September 3, The Effect of Landscape Patterns on Foraging Strategies of Hunter-Gatherers: An Empirical Agent-Based Modeling Approach, Social Simulation 2014, Barcelona, Spain, September 1-6
- September 3, The Effect of Spatial Clustering on Stone Raw Material Procurement, Social Simulation 2014, Barcelona, Spain, September 1-6
- September 2, Modeling population dynamics of online communities, Social Simulation 2014, Barcelona, Spain, September 1-6
- June 18, Tipping Collective Action in Social Networks, Workshop on the Workshop, Indiana University, June 18-21, Bloomington
- June 5 (invited) Typologies of social-ecological systems, Workshop on dynamics of social-ecological systems, Stockholm University, Sweden, June 5-6.
- June 3 (invited) Conditions for Self-Governance of Common Resources, Behavior, Environment and Nature Network Workshop, Swedish Royal Academy, Stockholm, Sweden, June 2-4.
- May 8, Tipping Collective Action in Social Networks, Resilience 2014, Montpellier, France, May 4-8
- May 8, Playing Games to Save Water, Resilience 2014, Montpellier, France, May 4-8.
- January 24 (invited), The Conditions of Self-Governance of the Commons, 2014 BYU Law Review Symposium on the Global Commons, Brigham Young University, January 23-24.

2013

- December 11, Comparing Agent-Based Models on Experimental data of Irrigation Games, *2013 Winter Simulation Conference*, Washington DC, December 8-11, 2013
- (Invited plenary) June 21, Robustness of Social-Ecological Systems, *17th Annual conference of the International Society of New Institutional Economics*, Florence, Italy, June 20-22, 2013.
- June 5, Towards collective actions experiments on a larger scale, *14th Global Conference of the International Association for the Study of the Commons*, Kitafuji, Japan, June 3-6, 2013.
- (Invited) February 8, *Constrained Communication in Common-Pool Resources Experiments*, Social Dilemma Conference, Caltech, Pasadena, CA, February 8/9
- January 4, Presentation, *Lab experiments of irrigation dilemmas under uncertainty*, Session on Common-Pool Resource Dilemmas organized by Society for the Advancement of Behavioral Economics, Annual Meeting of Allied Social Science Associations, San Diego

2012

- (Invited) November 29, Lecture, *A multi-method approach to study collective action and the commons*, A Tribute to Elinor Ostrom, Utrecht University, the Netherlands

- (Invited) November 28, Seminar, *Empirical grounding of agent-based models of social-ecological systems*, Copernicus Institute, Utrecht University, the Netherlands
- (Invited) November 27, Seminar, *Irrigation games: Asymmetric commons dilemmas under uncertainty*, Department of Sociology, Utrecht University, the Netherlands
- (Invited) November 26, Seminar, *Cooperative Hunting among the Aché, An empirically grounded model*, Groningen Center for Social Complexity Studies, Groningen University, the Netherlands
- (Invited) October 30, Seminar, *The role of inequality and trust in governance of human-environmental systems*, Department of Environmental Systems Science, ETH Zurich, Switzerland
- (Invited) October 25, Seminar, *Conditions for cooperative hunting*, IGERT Program in Evolutionary Modeling, Washington State University
- (Invited) August 14, Seminar, *Agent-Based Modeling of Social-Ecological Systems – The challenges of empirical grounding*, International Food Policy Research Institute, Washington D.C.
- (Invited) July 2, Keynote Lecture, *Using behavioral experiments to inform models of social-ecological systems*, International Congress on Environmental Modeling and Software, Leipzig, Germany.
- (Invited) June 25, *Foraging of Ache hunters - An empirically grounded model*, workshop on Applications of Agent-based Models in Agricultural and Ecological Economics, Humboldt University, Berlin
- (Invited) June 7, *Methodological Challenges in studying social-ecological systems*, Public Lecture of Albrecht Daniel Thaer Kolloquium 2012, Humboldt University Berlin.
- (Invited) June 5, *Experiments on Irrigation Systems*, Seminar, Department of Development Economics, Wageningen University, the Netherlands
- (Invited) April 13, *Crafting institutions in lab and field experiments*, Rules as Genotypes workshop, Evolution Institute & Workshop for Political Theory and Policy Analysis, Bloomington, Indiana
- (Invited) April 11, *Bottom up collective action to address global challenges*, Seminar, Workshop for Political Theory and Policy Analysis, Indiana University, Bloomington, Indiana
- March 29, *Games and Models in Education on Sustainability*, Parallel Session, Planet under Pressure Conference, London, UK
- (Invited) March 23, *Bottom up collective action to Address Global Challenges*, Innovation, Society and Complexity workshop, March 21-23, European Center for Living Technology, Venice, Italy
- (Invited) March 13, *The Fragility of Robust Social-Ecological Systems*, Faculty Cross Talk, Arizona State University
- (Invited) March 10, *Forum discussion in session, Us vs. Them: Insights into Human Nature*, Tuscon Festival of Books
- (Invited) March 1, *The Triumphs and Tragedies of Social Networks*, Emerge, Arizona State University (With Hari Sundaram)

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 Decisions 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, Keynote 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', Dunsuir 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
- 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

Groupe 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

- Science Review Committee, National Socio-Environmental Synthesis Center (2014-2017)
- National Science Foundation Panel (2008, 2011, 2016, 2018, 2019)
- 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

- Search committee for two Applied Mathematics for Life and Social Sciences faculty (2010)
- Student-Faculty Policy Committee (2016-2018)

School of Sustainability

- Undergraduate committee (2015/2016)
- University Senate (2016/2017; 2017/2018; 2018/2019)
- Personnel committee (2019/2020)

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)
- University Senate (2009/2010; 2010/2011)
- Space Committee (2012-2014)
- Search committee Assistant Professor Evolutionary Anthropology (2014/2015)

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:

- Co-Editor in Chief of Ecology and Society (2019-)
- Associate editor-in-chief of Ecology and Society (2005-2019)
- Member of editorial board Ecology and Society (2004)

- Member of editorial board Conservation Ecology (2003)
- Member of editorial board Global Environmental Change (since 2007)
- Associate editor Advances in Complex Systems (since 2010)
- Member of editorial board Journal of Artificial Societies and Social Simulation (since 2015)
- Editor of Socio-Environmental Systems MOdeling (SESMO) (since 2017)

Professional organizations

- International Association for the Study of the Commons
 - organizer of North American conference September 2010
 - elected member of the Council (2013-2016)
 - President-elect (2017/2018)
 - President (2019/2020)
- 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
- European Social Simulation Association
- International Association for the Study of the Commons
- International Society for Ecological Economics

Reviewer for the following journals

- Adaptive Behavior (2010)
- Advances in Complex Systems (2010, 2011)
- Agricultural Systems (2008, 2013)
- Agriculture, Ecosystems & Environment (2003)
- Ambio (2016)
- American Economic Review (2003, 2010)
- American Journal of Sociology (2003)
- American Political Science Review (2011, 2014)
- Annals of the Association of American Geographers (2003)
- Australian Journal of Agricultural and Resource Economics (2011)
- Autonomous Agents and Multi-Agent Systems (2008, 2014, 2015)
- Bioscience (2018)
- Cambridge Journal of Economics (2012)
- China Economic Review (2016)
- Climate Change (2015, 2018)
- Climate Change Letters (2014)
- Cognitive Systems Research (2005)
- Communication Methods and Measures (2019)
- Complexity (2001, 2006)
- Comparative Economic Studies (2013)
- 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, 2014)
- Current Opinion in Environmental Sustainability (2014)
- Decision (2018)
- Demography (2007)
- Eastern Economic Journal (2007)
- Ecohealth (2005, 2006)
- Ecosystems (2004, 2008-2010)
- Ecological Applications (2008)
- Ecological Economics (1995-2001, 2003, 2005-2016)
- Ecological Informatics (2008)
- Ecological Modelling (2006-2008)
- Ecology and Society (2004-2019)
- Economic Inquiry (2013, 2018)
- Economic Journal (2004, 2012)
- Environment and Development Economics (2004, 2005, 2009, 2016)
- Environmental and Planning A (1996)
- Environmental and Resource Economics (2000, 2001, 2005, 2014, 2016)
- Environmental Education Research (2020)
- 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, 2010-2019)
- Environmental Science and Policy (2011)
- Experimental Economics (2012, 2013)
- European Journal of Operation Research (1999)
- Food Policy (2014)
- Global Environmental Change (2005 - 2019)
- Global Policy (2010)
- Human Ecology (2014, 2019)
- IEEE Transactions on Evolutionary Computation (2007)
- Integrated Assessment (2000)
- International Forestry Review (2016)
- International Journal of Critical Infrastructure Protection (2018)
- International Journal of the Commons (2009, 2010, 2014, 2016, 2018, 2019)
- International Journal of Geographical Information Systems (2003, 2005)
- International Journal of Microsimulation (2017)
- International Journal of Risk Assessment and Management (2008)
- Journal of Archaeological Method and Theory (2013)
- Journal of Artificial Societies and Social Simulation (1999, 2000, 2003, 2005, 2007, 2009, 2017, 2018, 2019)
- Journal of Behavioral and Experimental Economics (2015)

- Journal of Cleaner Production (2003)
- Journal of Economic Behaviour and Organization (2006, 2008, 2011, 2014, 2017, 2018)
- Journal of Economic Dynamics and Control (2008)
- Journal of Environmental Economics and Management (2004, 2007, 2013, 2014)
- Journal of Environmental Management (2006, 2007, 2010, 2019)
- Journal of Environmental Planning and Management (2014, 2020)
- Journal of Environment and Development (2016)
- Journal of Environmental Psychology (2019)
- Journal of Evolutionary Economics (2005)
- Journal of Hydrology (2019)
- Journal of Industrial Ecology (2004, 2014)
- Journal of Institutional Economics (2013)
- Journal of Land Use Science (2005)
- Journal of Natural Resources Policy Research (2009)
- Journal of Politics (2008)
- Journal of Population Economics (2012)
- Journal of Public Economics (2011, 2012)
- Journal of Theoretical Biology (2006, 2007, 2012, 2013)
- Landscape Ecology (2011)
- Landscape and Urban Planning (2007)
- Management Science (2014)
- Marine Policy (2017)
- Mathematical Biosciences (2006)
- Nature (2013)
- Nature Climate Change (2011)
- Nature Communications (2013)
- Nature Human Behaviour (2017-2020)
- Nature Sustainability (2017)
- Papers in Regional Science (2001, 2002)
- Philosophical Transactions of the Royal Society B (2001)
- Physica A (2009)
- PLOS ONE (2012-2016)
- Political Research Quarterly (2008, 2012)
- Policies Studies Journal (2010)
- Population and Development Review (2013)
- Population and Environment (2011)
- Proceedings of the National Academy of Sciences USA (2007-2009, 2011, 2013-2020)
- Public Administration (2017)
- Public Finance Review (2012)
- Publius (2011)
- Rationality and Society (2012)
- Resource and Energy Economics (2012, 2015)
- Review of Agricultural, Food and Environmental Studies (2017)
- Royal Society Interface (2015)

- Science (2008, 2010, 2012)
- Science Advances (2019)
- Scientific Reports (2014)
- Simulation (2004, 2006, 2008)
- Simulation and Gaming (2005)
- Social Networks (2012)
- Social Science Review (2008)
- Society and Natural Resources (2009, 2016)
- Socio-Environmental Systems Modeling (2018, 2019)
- Structural Change and Economic Dynamics (2003)
- Structure and Dynamics (2010)
- Sustainability (2017, 2018)
- Technological Forecasting and Social Change (2007)
- Trends in Ecology and Evolution (2017)
- Transactions on Intelligent Systems and Technology (2010)
- Topics in Cognitive Science (2008)
- Water (2019)
- Water Alternatives (2014)
- Water Resources and Economics (2013, 2016)
- Water Resources Research (2006, 2015-2017)
- WIRE's, Climate Change (2016)
- World Development (2019)

Book reviews

- Oxford University Press (2018)
- Palgrave MacMillan (2012)
- Princeton University Press (2007, 2010)
- Taylor and Francis (2009)
- John Wiley & Sons (2010, 2012)
- MIT Press (2015)

Reviewer for the following organizations

- Aarhus Institute of Advanced Studies, Denmark (2017)
- American Association for the Advancement of Science (2019)
- Austrian Science Fund (2004, 2017)
- Belmont Forum (2014)
- European Research Council (2013, 2015)
- European Science Foundation (2001, 2009, 2015)
- Flemish Research Foundation (2016)
- French National Research Agency (2013)
- 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 Geographic (2016)
- National Science Foundation (USA) (2002, 2003, 2008-2020)

- National Research Council (2007)
- Natural Environment Research Council, UK (2013, 2014)
- Netherlands Organisation for Scientific Research (2001, 2009, 2010, 2015)
- OT-Med (2014)
- Pelagic Fisheries Research Program (2009)
- Swiss National Science Foundation (2008, 2014)
- 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 PoliMix (2008-2013)
- Advisory Committee for NSF project “Climate, drought, and agricultural adaptation in Sri Lanka” at Vanderbilt University (2012- 2015).

Workshop Organizer

- Chair IASC 2018: <https://www.iasc-commons.org/iasc-virtual-conference-2018-welcome/> , November 12-30, 2018
- Chair CoMSES 2018: <https://forum.comses.net/t/about-comses-2018> ; virtual Conference October 1-19, 2018
- Chair CoMSES 2017: <https://www.comses.net/conference/2017/>; virtual conference October 2-20, 2017
- Co-PI of working group “Synthesis of micro-scale human decision making to mitigate risks to ecosystem services” funded by SESYNC for five working group meetings during 2014-2015.
- Co-PI of working group “A cultural evolutionary approach to social-ecological systems change” funded by NIMBIOS for four working group meetings during 2014-2015
- Organizer of Satellite Meeting “Computational Transparency in Modeling Complex Systems, at the Conference on Complex Systems, September 30, Tempe Arizona State University
- Co-Organizer of Workshop on Governance at Different Scales, On March 20, At Arizona State University.
- Organizer of Symposium “Sustaining the Commons” on March 19 At Arizona State University; <https://cbie.asu.edu/sustaining-commons-interplay-between-theory-and-practice>
- Organizer of the Workshop on behavioural experiments on social-ecological systems, Arizona State University, March 28-30, 2013
- Co-Organizer of the Workshop on Education and Agent-Based Modeling, Arizona State University, February 28-March 2, 2013
- 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 of Science committee of the Social Simulation Conference 2010, Mainz
- Member of Program Committee Environmental and Sustainability Applications (E&SA) track at Winter Simulation Conference (WSC 2018) December in Arlington
- Member of Science committee of the Social Simulation Conference 2018, Stockholm
- Member of the Program Committee of Conference on Complex Systems 2018, Thessaloniki, Greece, September 23-28, 2018
- Member of the Program committee of the 19th International Workshop of Multi-Agent-Based Simulation, July 201, Stockholm.
- Member of the Program Committee of Conference on Complex Systems 2017, Cancun, Mexico, September 17-22, 2017
- Member of the local organizing committee of the bi-annual conference of the International Association of the Commons, Utrecht, July 2017.
- Member of the Program committee of the 18th International Workshop of Multi-Agent-Based Simulation, May 2017, Sao Paulo.
- Member of the Program Committee of SocInfo2016 conference, Seattle, November, 2016
- Member of Program Committee Environmental and Sustainability Applications (E&SA) track at this year's Winter Simulation Conference (WSC 2016) December 11-14, 2016 in Arlington
- Member of Science committee of the Social Simulation Conference 2016, Rome
- Member of Program committee of the 17th International Workshop on Multi-Agent-Based Simulation, May 10th, 2016, Singapore,
- Member of Science committee of the Social Simulation Conference 2015, September 14-18, Groningen, the Netherlands.
- Member of Program Committee of the Biannual Global Conference of the International Association for the Study of the Commons, Edmonton, Canada
- Member Conference on Complex systems
- Member of the Program Committee of the 16th International Workshop on Multi-Agent-Based Simulation, May 4-5, Istanbul, Turkey, 2015
- Member of the Program Committee of the 6th International Conference on Social Informatics, November 10-13th, Barcelona, Spain, 2014.

- Member of the Program Committee of the 5th World Conference on Social Simulation, November 4-7, San Paulo, Brazil, 2014.
- Member of Science committee of Social Simulation Conference 2014, September 1-5, Barcelona, Spain
- Member of the Program Committee of the 15th International Workshop on Multi-Agent-Based Simulation, May 5-6, 2014 in Paris, France
- Member of the Program Committee of SocInfo2013 conference, Kyoto, November 25-27, 2013
- Member of the Program Committee, ESSA 2013: 9th Conference of the European Social Simulation Association, Warsaw School of Economics, Warsaw, Poland, September 16-20, 2013
- Member of the 1st BRICS Countries Congress on Computational Intelligence Organizing Committee, Porto de Galinhas, Recife, Brazil, September 8-11, 2013
- Member of Scientific Committee International Conference – Cooperation or Conflict? Economics of natural resource and food, May 30-31, 2013, Hof van Wageningen, Wageningen, the Netherlands.
- Member of Program Committee Simulating Social Interaction track of 27th European Conference on Modelling and Simulation, May 27th - 30st, 2013, Ålesund in Norway.
- Member of Scientific Committee of MABS 2013 – 14th International Workshop on Multi-Agent Based Simulation, Saint Paul, Minnesota, May 6-7, 2013
- 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 Program Committee for the 4th International Conference on Social Informatics (SocInfo-12), Lausanne, Switzerland, 5-7 December 2012.
- Member of Science committee of the European Social Simulation Association 2012, University of Salzburg, Austria, September 10-14, 2012
- Member of the Science committee of the World Conference of Social Simulation, National Chengchi University, Taipei, Taiwan, September 4-7, 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>

Mentioned in Chapter 14 of Jared Diamond (2005) *Collapse: How Societies choose to succeed or fail*, Viking Press, New York

Mentioned in Chapter 13 of Charles Wohlforth (2010) *The Fate of Nature: Rediscovering our ability to rescue the earth*, Picador, New York.

Impact Assessment

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

Statistics of February 17, 2020:

	all	Since 2015
citations	23157	9960
h-index	66	46
I10-index	180	136