

CURRICULUM VITAE

Tatiana Filatova

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EDUCATION

- March 2005 – April 2009 **PhD (Cum Laude)**
University of Twente, The Netherlands,
Department of Water Engineering and Management
Specialization: flood risk management, economics of land-use, agent-based computational economics
Thesis: “Land markets from the bottom up: Micro-macro links in economics and implications for coastal risk management”
Dissertation adviser: Prof. Anne van der Veen
- 2003 – 2005 **Post Graduate School**
Chita Institute of Natural Resources, Russian Academy of Sciences, Russia
Dept. of ecological-economic modelling.
Specialization: ecological economics, economic growth and ecosystem services, indicators of sustainable development
Adviser: Prof. Irina P. Glazyrina
- 1998 – 2003 **MSc (Cum Laude)**
Chita State Technical University, Russia
Specialty: Information Systems in Economics
Graduate thesis: “Information system for the calculation of the indicators of sustainable development for Chita region”.
Adviser: Prof. Irina P. Glazyrina

ADDITIONAL TRAINING

- 2010 Intensive Dutch course at the Language Institute Regina Coeli, Vught, Netherlands
- Jan 2007-June 2007 Visiting scholar at George Mason University, Fairfax/Washington DC, *USA*.
Finished two PhD level courses:
- **Grade A+** for the course “Computational Analysis of Social Complexity” by Prof. Rob Axtell
- **Grade A** for the course “Spatial Agent-based Models of Human-Environment Interactions” by Prof. Dawn C. Parker
- March 2004 – April 2004 Russian-Dutch Young Scientists exchange “Quality of growth in transition countries”, University of Twente, *The Netherlands*
- April 2003 Conservation GIS (Geographical Information Systems) Workshop, by the Ecology Centre Inc. USA, Held in Chita, *Russia*

WORK EXPERIENCE

- 2014-present **Associate professor**
University of Twente, Faculty of Management and Governance, Centre for Studies in Technology and Sustainable Development, the Netherlands
- 2010 - 2014 **Assistant professor** (tenure-track)
University of Twente, Faculty of Management and Governance, Centre for Studies in Technology and Sustainable Development, the Netherlands
- Oct 2009 - present **Economist in the field of Water, Environment and Space** (part-time)
Deltares, Research Institute, the Netherlands
- April 2009 – Dec 2009 **PostDoc**
University of Twente, Department of Water Engineering and Management
Specialization: spatial and environmental economics for water management
- September 2003 – 2005 **Junior researcher** (part-time)
Institute of Natural Resources, Russian Academy of Sciences, Russia
Dept. of ecological-economic modelling
Specialization: ecological economics
- June 2003 – 2005 **Researcher** (part-time)
NGO Transbaikal Research Centre for Ecological Economics, Russia
Specialization: economic development and pressure on ecosystems; evaluation of ecosystem services (forest ecosystems)
- May 2001 – June 2003 Volunteer researcher (part-time)
NGO Transbaikal Research Centre for Ecological Economics, Chita, Russia
Specialization: carbon credit calculation; sustainable forest use; Kyoto protocol

VISITING RESEARCHER

- 2014-2015 London School of Economics, Grantham Research Institute for Climate Change, *London, UK*
- March 2013 Fenner School of Environment and Society, Australian National University, *Canberra, Australia*
- April, August 2011
August 2012 International Institute for Applied Systems Analysis (IIASA), *Vienna, Austria*
- 2007, 2008, 2009 Department of Computational Social Science (Center for Social Complexity), George Mason University, *Fairfax-Washington DC USA*
- 2006 Gund Institute of Ecological Economics, University of Vermont, *Burlington, USA*
- 2006 National Institute for Coastal and Marine Management (RIKZ), Dutch Ministry of Public Works and Water Management, *The Hague, The Netherlands*

INVITED TALKS

- 2015 University of Hamburg, Research Unit Sustainability and Global Change, Hamburg, **Germany**
Invited talk ‘Changing climate – changing behavior: integrating adaptive economic dynamics in coupled socio-environmental systems’
- 2014 Stockholm Resilience Center, Stockholm, **Sweden**
Invited talk ‘Structural changes in coupled socio-ecological systems’

- 2013 Annual conference of the Groningen Center for Social Complexity Studies, University of Groningen, **The Netherlands**
Invited talk “Changing climate - changing behavior: flood hazards, risk perception and markets.”
- 2013 Leibniz Institute for Agricultural Development in Central and Eastern Europe (IAMO), Halle, **Germany**.
Invited lecture "Agent-based land markets: methods, challenges and perspectives" at the Workshop Agent-based modeling in agricultural and resource economics"
- 2013 Wageningen University & Research centre, **the Netherlands**
Invited talk “[Changing climate – changing behavior :Modeling abrupt structural shifts in complex socio-environmental systems from the bottom-up](#)” at the Workshop “Validation of Agent-based Land Use Models”
- 2013 Institute of Environmental Systems Research, University of Osnabrueck, Osnabrueck, **Germany**
Invited lecture “Behavioral changes and abrupt structural shifts in complex socio-environmental systems”
- 2011 CEMAGREF & CIRAD, Invited talk at the Workshop “Resilience, Water and Foresight”, Montpellier, **France**
- 2010 GREQAM (Groupement de Recherche en Economie Quantitative d’Aix Marseille), Marseille, **France**
Invited lecture “Land markets: heterogeneous agents trading heterogeneous goods”
- 2009 George Mason University, Washington DC, **USA**
Invited talk “Agent-based land markets: Individual Decisions and Flood Risk Management”, Department of Computational Social Science
- 2009 Universita Ca' Foscari di Venezia, Venice, **Italy**
Lecture at the winter school ‘Systems Analysis and Integrated Modeling in Climate Change Research’
- 2007 Ohio State University, Columbus, **USA**
Guest lecture for the class ‘Economic and Social Geography’ at the Department of Geography

FUNDING ACQUISITION AND GRANT PARTICIPATION

- 2015 UT Stimuleringsfonds Role: PI (**€14.100**).
- 2015 - 2018 ‘Tech4People’ Research Advancement Program of the University of Twente, project “Closing the gap between the real world and the lab? Agent technology to extrapolate behavior change in the lab”. Role: PI in the interfaculty consortia (**€150.000**).
- 2014-2015 NWO Digging into Data project “Mining Relationships Among variables in large datasets from CompLEx systems” (MIRACLE). Role: PI from the Dutch side in the Canada-USA-UK-Netherlands consortia (**€100.000**).
<http://wici.ca/new/research/digging-into-data-did-research/>
- 2012-2016 EU FP7 “COMPLEX: Knowledge Based Climate Mitigation Systems for a Low Carbon Economy”. Role: UT coordinator (**€1.150.000**) and WP5 Co-PI (**€375.000**). <http://www.complex.ac.uk/>
- 2012-2015 The Netherlands Organisation for Scientific Research (NWO) VENI grant “Changing climate – changing behavior”. Project web-page:
http://www.utwente.nl/mb/cstm/staff/cv/filatova_4-shortdescriptionveni.docx/

Role: PI (€250.000).

- 2010-2012 GEF (Global Environmental Facility) “Preparation to Climate Change in Africa” - assessing and mapping of increasing flood risks due to climate change for Sao Tome Role: co-applicant from Deltares (\$28 000).
- 2010-2014 EU FP7 “Vectors of Change in Oceans and Seas Marine Life, Impact on Economic Sectors”. Impacts of climate change on recreational sector along the Dutch North Sea coast due to climate change. Project web-site: <http://www.marine-vectors.eu/> Role: co-applicant from Deltares (€110.000).
- 2009-2011 UT Stimuleringsfonds Role: PI (€20.000).
- 2009 – 2013 NSF program ‘Studies of Coupled Natural and Human Systems’, grant ‘Spatial land-use change and ecological effects: how land management and carbon dynamics interact’, PI Prof. D. Brown (<http://www-personal.umich.edu/~danbrown/>) and co-PI Dr.D.Parker (<http://mason.gmu.edu/~dparker3/>). Project web-site: <http://masi.cscs.lsa.umich.edu/sluce/> . Role: external adviser.
- 2004 – 2005 RFH (Russian Fund for Humanitarian Research) project “The dynamics of nature use and quality of economic growth in the resource-based economy”. Role: participant.
- 2003 – 2005 NWO (the Netherlands Organisation for Scientific Research)-RFBR (Russian Fund of Basic Research) project “Quality of growth in transition countries”. Role: participant.
- 2001 – 2003 Global Environmental Facility (GEF) Project “Conservation of Biodiversity”. Role: participant.

ACADEMIC HONORS AND AWARDS

- 2014 **Early Career Excellence Award**, International Environmental Modelling and Software Society (iEMSs), San Diego, USA
- 2013 **Prof De Winter Prize for the Best article** of the year among female Assistant/Associate professors at the University of Twente ((€2.500) <http://www.utwente.nl/en/newsevents/2013/11/166791/tatiana-filatova-wins-professor-de-winterprijs>
- 2012 **VENI grant**, The Netherlands Organisation for Scientific Research (NWO)
- 2008 **Commendation for the best paper and presentation** at the 4th Biennial International Congress on Environmental Modelling and Software (iEMSs’08), “Integrating Sciences and Information Technology for Environmental Assessment and Decision Making”, July 7-10, 2008 - Barcelona, Spain;
- 2004 **Best paper and presentation** in the section of Environmental Economics Conference on Regional Sciences organized by Council for the study of productive resources of Russian Academy of Sciences & International Academy for regional development and cooperation, November 2004, Moscow, Russia;

EDITORIAL WORK

- 2014 – present Member of the Editorial Board of the Environmental Modelling & Software journal (Elsevier, IF=4.42)
- 2013- 2015 Editor of the special issue on “Modelling systemic change in coupled socio-environmental systems (SES)” together with Gary Polhill (The James Hutton Institute, UK) and Maja Schlüter (Stockholm Resilience Center, Sweden). Environmental Modelling & Software

Editor of the special issue on “Spatial agent-based models for socio-ecological systems” together with D.C. Parker (University of Waterloo, Canada), P.H. Verburg (VU, NL), and C.A. Stannard (The James Hutton Institute, UK).
Environmental Modelling & Software

REFEREED JOURNALS

1. Lee, J.-S., **T. Filatova**, A. Ligmann-Zielinska, B. Hassani-Mahmooei, F. Stonedahl, I. Lorscheid, A. Voinov, J.G. Polhill, Z. Sun, and D.C. Parker, The Complexities of Agent-Based Modeling Output Analysis Journal of Artificial Societies and Social Simulation, 2015. 18(4): p. 31. Available online: <http://jasss.soc.surrey.ac.uk/18/4/4.html>
2. van Duinen, R., **T. Filatova**, W. Jager and A. van der Veen (2015). "Going beyond perfect rationality: drought risk, economic choices and the influence of social networks." The Annals of Regional Science October 2015. 35 pp. <http://link.springer.com/article/10.1007/s00168-015-0699-4/fulltext.html>
3. **Filatova, T.**, J.G. Polhill, S. van Ewijk (In Press) Regime shifts in coupled socio-environmental systems: Review of modelling challenges and approaches. Environmental Modelling & Software. <http://www.sciencedirect.com/science/article/pii/S1364815215001127>
4. Elsworth, S., Guillaume, J.H.A., **Filatova, T.**, Rook, J., Jakeman, A.J. (2015). A methodology for eliciting, representing, and analysing stakeholder knowledge for decision making on complex socio-ecological systems: From cognitive maps to agent-based models. Journal of Environmental Management, 151 pp. 500 – 516, <http://www.sciencedirect.com/science/article/pii/S0301479714005696>
5. Husby, T., Groot, H. de, Hofkes, M. and **Filatova, T.** (In press). ‘Flood Protection and Endogenous Sorting of Households: the Role of Credit Constraints’. Special Issue 'Decision Making on Adaptation to Climate Change', Mitigation and Adaptation Strategies for Global Change.
6. van Duinen, R., **T. Filatova**, A. van der Veen, and P. Geurts (2015) “Empirical analysis of farmers’ drought risk perception: objective factors, personal circumstances and social influence”, Risk Analysis (35): 4, p. 741–755, <http://onlinelibrary.wiley.com/doi/10.1111/risa.12299/abstract>
7. van Duinen, R., **T. Filatova**, A. van der Veen, and P. Geurts (Accepted) “Coping with drought risk: empirical analysis of farmers' drought adaptation in the southwest Netherlands”, Regional Environmental Change, <http://link.springer.com/article/10.1007%2Fs10113-014-0692-y>
8. **Filatova, T.** (In press) "Empirical agent-based land market: Integrating adaptive economic behavior in urban land-use models", Computers, Environment and Urban Systems, <http://www.sciencedirect.com/science/article/pii/S0198971514000714>
9. **Filatova, T.** (2014) “Market-based instruments for flood risk management: a review of theory, practice and perspectives for climate adaptation policy”, Environmental Science & Policy. Volume 37, March 2014, p 227–242, <http://www.sciencedirect.com/science/article/pii/S1462901113001822>
10. Sun, S., D.C. Parker, Q. Huang, **T. Filatova**, D.T. Robinson, R. Riolo, M. Hutchinson, and D. G. Brown (2014) “Market Impacts on Land-Use Change: An Agent-Based Experiment”, Annals of the Association of American Geographers. 104:3, p 460-484, <http://dx.doi.org/10.1080/00045608.2014.892338>
11. Voinov A., **T. Filatova** (2014) “Pricing strategies in inelastic energy markets: can we use less if we can’t extract more?” Frontiers in Earth Science, March 2014, Volume 8, Issue 1, pp 3-17, <http://link.springer.com/article/10.1007%2Fs11707-013-0410-y>
12. Huang, Q., Parker, D., **Filatova, T.**, & Sun, S. (2014) “A review of urban residential choice models using agent-based modeling”. Environment and Planning B, 41(4), 661 – 689. doi:10.1068/b120043p, <http://www.envplan.com/abstract.cgi?id=b120043p>
13. Huang, Q., D.C. Parker, S. Sun, and **T. Filatova** (2013). “Effects of agent heterogeneity in the presence of a land-market: a systematic test in an agent-based laboratory”, Computers,

- Environment and Urban Systems, 41, pp. 188 – 203,
<http://www.sciencedirect.com/science/article/pii/S0198971513000616>
14. **Filatova T.**, P.H. Verburg, D.C. Parker, C.A. Stannard (2013). “Spatial agent-based models for socio-ecological systems: challenges and prospects”, *Environmental Modelling & Software*, Volume 45, p. 1-7 <http://www.sciencedirect.com/science/article/pii/S1364815213000807>
 15. Robinson, D.T. S. Sun, M. Hutchins, R. Riolo, D.G. Brown, D.C. Parker, **T. Filatova**, W.S. Currie, S. Kiger (2013) “Effects of land markets and land management on ecosystem function: A framework for modelling exurban land-change”, *Environmental Modelling & Software*, Volume 45, p. 129–140 <http://www.sciencedirect.com/science/article/pii/S1364815212002010>
 16. Katsanevakis S., V Stelzenmüller, A South, T Kirk Sørensen, P J.S. Jones, S Kerr, F Badalamenti, C. Anagnostou, P. Breen, G. Chust, G D’Anna, M. Duijn, **T. Filatova**, et al (2011) Ecosystem-based marine spatial management: Review of concepts, policies, tools, and critical issues. *Ocean and Coastal Management* Vol. 54; 807-820,
<http://dx.doi.org/10.1016/j.ocecoaman.2011.09.002>
 17. **Filatova T.**, D.C. Parker, A. van der Veen (2011) “The Implications of Skewed Risk Perception for a Dutch Coastal Land Market: Insights from an Agent-Based Computational Economics Model”, *Agricultural and Resource Economics Review*, 40(3), p405-423,
<http://purl.umn.edu/120639>
 18. **Filatova T.**, J. Mulder, A. van der Veen (2011) “Coastal risk management: how to motivate individual economic decisions to lower flood risk?”, *Ocean and Coastal Management* 54 (2), 164-172 <http://dx.doi.org/10.1016/j.ocecoaman.2010.10.028>
 19. **Filatova T.**, A. van der Veen, A. Voinov (2011) “An Agent-Based Model for Exploring Land Market Mechanisms for Coastal Zone Management”, *Environmental Modelling and Software* , 26 179-190 <http://dx.doi.org/10.1016/j.envsoft.2010.08.001>
 20. **Filatova T.**, A. van der Veen, D. C. Parker (2009) “Land market interactions between heterogeneous agents in a heterogeneous landscape—tracing the macro-scale effects of individual trade-offs between environmental amenities and disamenities”, *Canadian Journal of Agricultural Economics* 57(4), 431-459 <http://dx.doi.org/10.1111/j.1744-7976.2009.01164.x>
 21. **Filatova T.**, D. C. Parker, and A. van der Veen (2009) “Agent-Based Urban Land Markets: Agent’s Pricing Behavior, Land Prices and Urban Land Use Change”, *Journal of Artificial Societies and Social Simulation* 12 (1). Available online:
<http://jasss.soc.surrey.ac.uk/12/1/3.html>
 22. Parker D.C. and **T. Filatova** (2008) “A conceptual design for a bilateral agent-based land market with heterogeneous economic agents”, *Computers, Environment and Urban Systems* 32, 454–463 <http://dx.doi.org/10.1016/j.compenvurbsys.2008.09.012>
 23. Glazyrina I.P. and **T. Filatova** (2004) “Ecological footprint as an indicator of the quality of growth”, *Environmental Economics*, 2, 60-76 (in Russian).

REFEREED BOOK CHAPTERS/BOOKS

1. **Filatova, T.** and O. Bin (2013). ‘Changing climate, changing behavior: adaptive economic behavior and housing markets responses to flood risks’, in ‘Advances in Social Simulations’, B. Kaminski and G. Koloch (Eds). ISBN: 2194-5357. Springer: Heidelberg, p. 249-258.
2. Parker D.C., D.G. Brown, **T. Filatova**, R. Riolo, D.T. Robinson, and S. Sun (2012). ‘Do Land Markets Matter? A Modeling Ontology and Experimental Design to Test the Effects of Land Markets for an Agent-based Model of Ex-urban Residential Land-use Change’, in “Agent-based Models of Geographical Systems”, Heppenstall, A.J.; Crooks, A.T.; See, L.M.; Batty, M. (Eds.) ISBN: 978-90-481-8926-7, p 525-543. Available online: www.casa.ucl.ac.uk/ABM.pdf
3. **Filatova T.**, D.C. Parker, A. van der Veen (2010) “Introducing Preference Heterogeneity into a Monocentric Urban Model: an Agent-Based Land Market Model”, selected post-proceedings of the Second World Congress on Social Simulations, K. Takadama, C. Cioffi-Revilla, G. Deffuant (Eds.), p103-119. Springer Series on Agent Based Social Systems, Vol. 7.
4. Krywkow J., **T. Filatova**, and A. van der Veen (2009). “Flood risk perceptions in the Dutch province of Zeeland: does the public still support current policies?” In P. Samuels, S.

- Huntington, W. Allsop, and J. Harrop, editors, Flood Risk Management: Research and Practice, CRC Press/Balkema Proceedings and Monographs in Engineering, Water and Earth Science, pages 1513 - 1521. Taylor & Francis Group, London
5. Brugnach M., C. Pahl-Wostl, K.E. Lindenschmidt, J.A.E.B. Janssen, **T. Filatova**, A. Mouton, G. Holtz, P. van der Keur, and N. Gaber (2008). "Complexity and Uncertainty: Rethinking the Modelling Activity", in "Environmental modelling, software and decision support. State of the Art and New Perspectives" A.J. Jakeman, A.A. Voinov, A.E. Rizzoli and S.H. Chen (Eds), p 49-69.
 6. Chapters 1-4 in 'Quality of growth indicators for regional economies', Glazyrina I.P. and Potravnyi I.M. (eds.) 2005, NIA-PRIRODA, Moscow, Russia, p. 30-148.

REPORTS (PEER-REVIEWED)

1. Filatova, T., S.M. Moghayer, I. Arto, G.F. Belete, K. Dhavala, K. Hasselmann, D.V. Kovalevsky, L. Niamir, A. Voinov, and T. Bulavskaya (2014). Dynamics of climate-energy-economy systems: development of a methodological framework for an integrated system of models. EU FP7 COMPLEX. Report D5.3. p. 37.
<http://owsgip.itc.utwente.nl/projects/complex/>
2. Ermolieva T, **Filatova T**, de Bruijn K, Jeuken A, Obersteiner M, Ermoliev Y. (2013) Integrated Catastrophic Flood Model for Designing Robust Flood Insurance Program. Case study in Rijnmond-Drechtsteden area, the Netherlands. IIASA Interim Report IR-13-002. Available online: http://www.iiasa.ac.at/publication/more_IR-13-002.php
3. **Filatova, T.** (2011). Building with economic nature: Market based instruments for risk management to promote spatial adaptation to climate change. Deltares Report nr. 1202029-013, pp 1 – 33
4. **Filatova, T.** L.M. Bochev-van der Burgh, K.M. Wijnberg, S.J.M.H. Hulscher, A. van der Veen, J.P.M. Mulder (2011). Congruent scales in economics, coastal engineering and morphology. In "Aspects of coastal research in contribution to LOICZ in the Netherlands and Flanders (2002-2010)", Carlo Heip and Remi Laane (Eds) LOICZ R&S Report No. 38:
<http://www.loicz.org/products/publication/reports/index.html.en> , pp 129-137

CONFERENCES PROCEEDINGS, ABSTRACTS AND PARTICIPATION:

1. Filatova, T. and J.-S. Lee (2015) 'Housing markets and climate change: exploring non-linear market dynamics in a spatial agent-based model', CCS'15: Conference On Complex Systems, September 28 – October 2, 2015, Tempe, Arizona, USA
2. Filatova, T. and O. Bin (2015). 'Mandatory Flood Insurance and Housing Prices: An Empirical Agent-Based Model Approach', Annual Conference of the European Association of Environmental and Resource Economists, June 24-27 2015, Helsinki, Finland
3. Husby, T., Hofkers, M. and T. Filatova (2015). 'Loss Aversion On The Housing Market And Capitalisation Of Flood Risk', Annual Conference of the European Association of Environmental and Resource Economists, June 24-27 2015, Helsinki, Finland
4. de Koning, K., Filatova, T. and O. Bin (2015). 'Dynamics of Flood Risk in Housing Markets: Agent-based Modelling of Market Interactions and Subjective Risk Perceptions' The 11th Conference of the European Social Simulation Association, 14-18 September, Groningen
5. van Duinen, R., T. Filatova, W. Jager and A. van der Veen (2015). 'Going beyond perfect rationality: drought risk, economic choices and the influence of social networks', The 11th Conference of the European Social Simulation Association, 14-18 September, Groningen
6. Abdulkareem, S., Augustijn-Becker, E.-W. and T. Filatova (2015, Poster). 'Including Risk Perception in Agents' Cognitive Decision-Making processes - A case of Cholera Diffusion', The 11th Conference of the European Social Simulation Association, 14-18 September, Groningen

7. Lee, J-S., van Duinene, R. and T. Filatova (2015), 'Micro and Macro Spatial Networks in Two Contexts: Collaboration and Interpersonal Risk Communication', INSNA Sunbelt Social Network Conference, 23-28 June, 2015, Brighton, UK
8. Filatova, T., J.-S. Lee, B.Naimi (2015) "Housing markets and economic choices under uncertainty: exploring non-linear market dynamics in a spatial agent-based model". The 20th Annual Workshop on the Economic Science with Heterogeneous Interacting Agents (WEHIA), from Thursday, 21-23 May, 2015, Sophia Antipolis, France
9. Niamir, L. and T. Filatova (2015). 'Linking Agent-based energy market with Computable General Equilibrium Model: An Integrated Approach to Climate-Economy-Energy System', The 20th Annual Workshop on the Economic Science with Heterogeneous Interacting Agents (WEHIA), from Thursday, 21-23 May, 2015, Sophia Antipolis, France
10. Ghorbani, A., Ozerol, G., Filatova, T., Lulofs, K., Klok, P., Toonen, T. (2015) "Understanding multi-level water governance by integrating institutional analysis and social simulation", International Conference on Public Policy ICPP'2015, 1-4 July, 2015, Milan, Italy
11. Jakeman, A, S. Elsworth, J. Guillaume, T. Filatova (2015) "A bottom-up approach to improve local-scale understanding and decision making in responding to climate change", The International Scientific Conference 'Our Common Future under Climate Change', 7-10 July 2015, Paris, France
12. Parker, D.C. M. Barton, T. Dawson, T. Filatova, X. Jin, J.-S. Lee, J. G. Polhill, K. Robinson, and A. Voinov (2015) "The MIRACLE project: A community library to archive and document analysis methods for output from agent-based models", AAG 2015 Association of American Geographers Annual Meeting AAG 2015, April 21-25, 2015, Chicago, Illinois
13. Filatova, T. (2014) "Modelling critical transitions in coastal housing markets under climate change", 3rd International Science and Policy Conference on the Resilience Of Social & Ecological Systems, 4-8 May 2014, Montpellier, France
14. Polhill, G. T. Dawson, D. Parker, X. Jin, K. Robinson, T. Filatova, A. Voinov, M. Barton, E. Pignotti and P. Edwards (2014) "Towards metadata standards for sharing simulation outputs", Social Simulation Conference, 1-5 September, Barcelona, Spain
15. Husby, T.G., H.L.F. de Groot, M.W. Hofkes, T.Filatova (2014) "Flood Protection and Tiebout-Sorting: the Role of Credit Constraints", 5th World Congress of Environmental and Resource Economists, June 28-July 2 2014, Istanbul, Turkey. Online: <http://www.webmeets.com/files/papers/wcere/2014/1283/JLE4.pdf>
16. van Duinen, R., Filatova, T., Geurts, P., Jager, W., van der Veen, A (2013) "Farmers' drought risk perceptions and adaptation in the Netherlands". ESSA 2013: 9th Conference of the European Social Simulation Association Warsaw School of Economics, 16-20 September, Warsaw, Poland
17. Van Duinen, R., T.Filatova, P.Geurts, A.van der Veen (2013). "Farmers' drought risk perception in the southwest Netherlands: empirical evidence from survey research", the 22nd Society for Risk Analysis –Europe conference, Trondheim, Norway, 17 - 19 June 2013.
18. Van Duinen, R., T.Filatova, A.van der Veen (Poster), (2013) "The role of social interaction in farmers' climate adaptation choice", Second Annual conference of the Groningen Center for Social Complexity Studies, University of Groningen, June 14 2013.
19. Husby, T. G., H.L.F. de Groot, M.W. Hofkes, T. Filatova (2013) "Footloose after the flood: equilibrium sorting and the willingness to pay for flood protection", Belpasso International Summer School on Environmental and Resource Economics 'Frontiers in Economics of Natural Hazards and Disaster Risk Reduction: Financing Disaster Risk Reduction and Climate Adaptation', 1st- 7th September 2013, Belpasso, Italy;
20. Parker, Dawn, Dan Brown, Joan Nassauer, William S. Currie, Rick Riolo, Scott Page, Shipeng Sun, Megan Hutchins, Derek Robinson, Sarah Kiger, Tatiana Filatova, Qingxu Huang (2013). The SLUCE2 project: A complex system approach to modeling exurban development trajectories and terrestrial carbon sequestration in Southeastern Michigan, USA. 2013 Annual Meeting of the American Association of Geographers, Los Angeles, CA, April 9-13, 2013.

21. T. Filatova, G. Polhill (2012). "Shocks in coupled socio-ecological systems: what are they and how can we model them?" Paper presented at the International Congress on Environmental Modelling and Software 'Managing Resources of a Limited Planet: Pathways and Visions under Uncertainty', Sixth Biennial iEMSs Meeting, Leipzig, Germany Seppelt, R. et al (Eds.) p. 2619-2630. Available online: <http://www.iemss.org/sites/iemss2012/proceedings.html>
22. R. van Duinen, T. Filatova, A. van der Veen (2012). "The role of social interaction in farmers' climate adaptation choice". Paper presented at the International Congress on Environmental Modelling and Software 'Managing Resources of a Limited Planet: Pathways and Visions under Uncertainty', Sixth Biennial iEMSs Meeting, Leipzig, Germany Seppelt, R. et al (Eds.) pp. 2493-2504. Available online: <http://www.iemss.org/society/index.php/iemss-2012-proceedings>
23. Parker, D.C., Sun, S., Filatova, T., Magliocca, N., Huang, Q., Brown, D.G., Riolo R. (2012) "The implications of alternative developer decision-making strategies on land-use and land-cover in an agent-based land market model". Paper presented at the International Congress on Environmental Modelling and Software 'Managing Resources of a Limited Planet: Pathways and Visions under Uncertainty', Sixth Biennial iEMSs Meeting, Leipzig, Germany Seppelt, R. et al (Eds.) pp. 2521-2528. Available online: <http://www.iemss.org/society/index.php/iemss-2012-proceedings>
24. R.van Duinen, T Filatova (2012). "Governing drought resilience: farmers' economic rationality, social learning and diffusion of adaptation strategies to global environmental change", International Conference "Planet Under Pressure - New Knowledge Towards Solutions", London, UK, March 26-29 2012
25. S.Sun, D.C Parker, D.G Brown, Q.Huang, T.Filatova, D.R Robinson, M. Hutchins, R. Riolo (2012). "Explicitly Representing Heterogeneous Land Developers in Agent-based Modeling of Land Use Change: A Preliminary Experiment", AAG, New-York, USA, February 24-28, 2012 <http://meridian.aag.org/callforpapers/program/AbstractDetail.cfm?AbstractID=42602>
26. A.Giardino, S. Bettencourt, A. Carvalho, T. Filatova, O. de Keizer, J. Schellekens and B. Ottow (2012). "Hydrology and Coastal Morphology at São Tomé", 8th International Conference on Coastal and Port Engineering in Developing Countries PIANC-COPEDEC VIII, India, February 20-24, 2012, 12p.
27. T. Filatova (2010). "Governing Public-Private Adaptation To Increasing Climate-Induced Risks In Coastal Areas", International Conference "Deltas in Times of Climate Change: Connecting world science and deltas", 29 September - 1 October 2010, Rotterdam
28. T. Filatova, A. Voinov (2010). "Agent-based model of market-based instruments for managing urban pressure on coastal ecosystems", 11th Biennial conference of the International Society for Ecological Economics (ISEE) Advancing Sustainability In A Time Of Crisis, 22 – 25 August 2010, Oldenburg, Germany
29. Robinson, D.T., Tatiana Filatova, Shipeng Sun, Rick L. Riolo, Daniel G. Brown, Dawn C. Parker (2010). "Integrating land markets, land management, and ecosystem function in a model of land change", Proceedings of the iEMSs Fifth Biennial Meeting: International Congress on Environmental Modelling and Software (iEMSs 2010), Ottawa, Canada, July 5-8 2010. David A. Swayne, Wanhong Yang, A. A. Voinov, A. Rizzoli, T. Filatova (Eds.) <http://www.iemss.org/iemss2010/proceedings.html>
30. D. C. Parker, D.G. Brown, T.Filatova, R.Riolo, D.T. Robinson, S. Sun (2010). "A first assessment of the role of land-market dynamics in agent-based land exchange models", AAG 2010, April 14-18, 2010, Washington, DC, USA
31. D.C. Parker, T. Filatova, D. Brown, D. Robinson (2009). "Do land markets matter? Exploring the carbon sequestration potential of ex-urban residential landscapes using an agent-based model of land-use change and land manager behavior", 56th North American Regional Science Association International Conference, San Francisco, USA, 18-21 November 2009
32. T. Filatova, A.van der Veen, D.C. Parker (2009 Keynote talk). "Why does individual risk perception matter in land use modeling? Combining survey data and agent-based land market

- model”, 6th European Social Simulation Association Conference, University of Surrey, Guildford, UK, September 14-18. Electronic publication, 14p
33. D.C. Parker, T. Filatova (2009). “How does preference heterogeneity influence land-use patterns via market interactions?”, US EPA sponsored conference on ‘The Economics of Land-Use Change: Advancing the Frontiers’, Washington D.C., USA, June 25 – 26, 2009.
 34. T.Filatova, DC Parker, A.van der Veen (2008). “Introducing Preference Heterogeneity into a Monocentric Urban Model: an Agent-Based Land Market Model”, Proceedings of the Second World Congress on Social Simulation, George Mason University, USA, July 14-17 2008. Electronic publication, 12p.
 35. T.Filatova, A.van der Veen, A.Voinov (2008 Best paper award). “An Agent-Based Model for Exploring Land Market Mechanisms for Coastal Zone Management”, Proceedings of the iEMSs Fourth Biennial Meeting: International Congress on Environmental Modelling and Software (iEMSs 2008), Barcelona, Catalonia, July 7-10 2008. M. Sánchez-Marrè, J. Béjar, J. Comas, A. Rizzoli and G. Guariso (Eds.) ISBN: 978-84-7653-074-0, p792-800, Volume II. Available online from: <http://www.iemss.org/iemss2008/index.php?n=Main.Proceedings>.
 36. D. Haase, S. Kabisch, A. Haase, T. Filatova, A. van der Veen, T. Tötzer, W. Loibl, S. Scatista, S. Schetke, A. Zuin, F. von Walter (2008). “Actors and factors – bridging social science findings and urban land use change modeling”, Proceedings of the iEMSs Fourth Biennial Meeting: International Congress on Environmental Modelling and Software (iEMSs 2008), Barcelona, Catalonia, July 7-10 2008. M. Sánchez-Marrè, J. Béjar, J. Comas, A. Rizzoli and G. Guariso (Eds.) ISBN: 978-84-7653-074-0, p 2059-2073, Volume III. Available online from: <http://www.iemss.org/iemss2008/index.php?n=Main.Proceedings>.
 37. T. Filatova, D.C. Parker, A. van der Veen (2007). “Agent-Based Land Markets: Heterogeneous Agents, Land Prices and Urban Land Use Change”, In F. Amblard (Ed.), Proceedings of the 4th Conference of the European Social Simulation Association (ESSA’07), September 10-14, 2007, Toulouse, France. France: ESSA (ISBN 978-2-9520326-7-4); p. 263-275.
 38. 2007 T. Filatova, A. van der Veen, DC Parker “Modeling of a Residential Land Market With a Spatially Explicit Agent-Based Land Market Model (ALMA)”, Workshop ‘Agent-based models of market dynamics and consumer behaviour’, August 22, 2007, Groningen, The Netherlands. Available online from: <http://www.essa.eu.org/simulation-wiki/SecondWorkshopOnMarketDynamics2007>
 39. T. Filatova, D.C. Parker (2007). “A Spatially Explicit Agent-Based Model of Land Market (ALMA)”, International Conference on Economic Science with Heterogeneous Interacting Agents (ESHIA’07), June 18-19, 2007, George Mason University, USA.
 40. T. Filatova, A. van der Veen (2007), 'Scales in coastal land use: policy and individual decision-making (an economic perspective)', in C. van Bers, D. Petry, and C. Pahl-Wostl (eds.), Issues in Global Water System Research. Global Assessments: Bridging Scales and Linking to Policy (#2; Bonn: The Global Water System Project), 61-68. Report on the joint TIAS-GWSP workshop held at the University of Maryland University College, Adelphi, USA, 10 and 11 May 2007.
 41. A.van der Veen and T.Filatova (2007). “Microeconomic dynamics of urban land use in coastal zone area”, In E. Addink, A. Barendregt, D. Ettema, D. Karssenbergt, T. de Nijs (Eds.), Proceedings of the International Conference “Framing Land Use Dynamics II”, April 18-20, 2007, Utrecht, The Netherlands; p. 196-197.
 42. T. Filatova, A. van der Veen (2006). “Microeconomic Motives of Land Use Change in Coastal Zone Area: Agent Based Modelling Approach”, In A. Voinov, A.Jakeman and A. Rizolli (Eds), Proceedings of the 3rd Biennial meeting “Summit on Environmental Modelling and Software” of the International Environmental Modelling and Software Society, July 9-13, 2006, Burlington, Vermont, USA. USA: IEMSs (ISBN 1-4243-0852-6). Available online from: <http://www.iemss.org/iemss2006/>.
 43. T. Filatova, A. van der Veen (2006). “Questions and methods to model emergence of land use patterns in coastal zone area”, In A. Voinov, A.Jakeman and A. Rizolli (Eds), Proceedings of the 3rd Biennial meeting “Summit on Environmental Modelling and Software” of the

- International Environmental Modelling and Software Society, July 9-13, 2006, Burlington, Vermont, USA. USA: IEMSS (ISBN 1-4243-0852-6). Available online from: <http://www.iemss.org/iemss2006/>.
44. T. Filatova (2006). "Scales in coastal land use: policy and individual decision making", Institute of Governance and Innovation Conference, June 15-16 2006, Enschede, Netherlands.
 45. T. Filatova (2006). Agent-based modelling for coastal zone management policy: land-use aspects, Proceedings of the International Conference "Public Administration in the XXI century: traditions and innovations", May 24-26 2006, Lomonosov Moscow State University, Russia, p. 250-254.
 46. T.Filatova (2006). "Human behaviour as a factor in land use change in coastal zone area", ZUMA Advanced Simulation Workshop, University of Koblenz, Germany, 4-7 of April, 2006
 47. Filatova T.V. (2005). How to evaluate sustainability of the region with the ecological footprint concept//Youth and Science in Siberia: proceedings of the youth academic forum, Dec 2003 - Chita: ZabGPU – p.174-178
 48. Stauvermann P., Filatova T.V. (2005). "Eco-efficiency of the region's absorption capacity"; international conference "Globalisation, New Economy and the Environment: Business and Society Challenges for Sustainable Development" held by the Russian Society of Ecological Economics, St.-Petersburg, Russia, p 74-76.
 49. T. Filatova (2004 Best paper award). "Eco-efficiency indicator as a regional indicator of sustainable development", Proceedings of the 5th Regional Science conference, Russian branch. International Academy of the Regional Development and Cooperation. Moscow, Russia, 2005, p. 228-239.
 50. Glazyrina I.P., Stauvermann P., Filatova T.V. (2004). "Ecologically adjusted indicators of economic growth"; IV scientific conference "Kulagin's recitation", Administration of Chita region and Chita State University, Russia: Chita State Technical University, part 1, p 106-111.
 51. T.Filatova (2004). "Quality of growth indicators based on Ecological Footprint concept"; the 8th Scientific Conference of International Society of Ecological Economics "Challenging Boundaries: economics, ecology and governance" held on July 11-14, 2004 in Montreal, Canada.
 52. A.E.Steenge, T.V.Filatova (2004). "The NAMEA approach to environmental accounting: perspectives of its implementation in Russia"; International conference "The natural resources potential of Asian Russia and contiguous countries: geoeconomical, geocological and geopolitical dividing into regions" held within the Baikal Economic Forum in Irkutsk, Russia, p. 210-213.
 53. T. Filatova (2003). "Is the development of Chita region sustainable or not? Point of view of Ecological footprint concept"; Scientific Conference held by the Siberian Branch of Russian Academy of Sciences in Chita, Russia, p. 81-87.
 54. T. Filatova (2003). "Accounting of the indicator of sustainable development for Chita region with the Ecological Footprint concept"; International Conference "Economic Development and the Environment: information, modelling and management" held by the Russian Society of Ecological Economics, Baikal, Russia, p. 68-73.
 55. V. Brezgin, T. Filatova (2002). "Information system for the evaluation of the ecological functions of forest ecosystems"; Scientific Conference "Natural resources of the Asiatic Russia and neighbouring countries: the ways of enhancement of nature use" held within the Baikal Economic Forum in Irkutsk, Russia, p 118-119.
 56. V. Brezgin, T. Filatova (2001). "Carbon credit accounting with the NPV formula"; International conference "Ecological Economic Management and Planning in Regional and Urban Systems" held by the Russian Chapter of the International Society for Ecological Economics in Moscow, Russia, p. 20-21.

TEACHING

2014-present

BSc Module 6 'Sustainability and Civil Engineering'

2011-present	MSc “Economic Methods of Sustainability Assessment”
2010-2012	BSc team coach, “Sustainable development in developing countries”
2010	Co-teaching “European Economic Integration”
2005 - 2006	University of Twente, The Netherlands MSc lectures “Cost-benefit analysis for water resource management policy”
September 2003 – January 2005	Chita State University, Russia Teaching Assistant, MSc “Informational systems in economics”

GRADUATE STUDENTS SUPERVISION

PhD students:

1. *L. Quispel* (2015-2018) ‘Closing the gap between the real world and the lab? Agent technology to extrapolate behavior change in the lab’
2. *K. de Koning* (2015-2018) ‘Climate Change And Regime Shifts In Flood-Prone Urban Areas: An Agent-Based Approach’
3. *L. Niamir* (2014-2017) ‘Agent-based Modelling for Low-carbon Economy: tracing non-marginal changes in energy markets’.
4. *S. Abdulkareem* (2014-2017) ‘Growing spatial and socio-economic dynamics in empirical agent-based models using artificial intelligence algorithms’
5. *S. Azis* (2014-2017) ‘Agribusiness institution model based on community as a climate change adaptation in agriculture’
6. *R. van Duinen* (2010-2014) ‘The role of individual behavior and social interaction in adaptation of the agricultural sector to resist increasing climate induced drought risk. A bottom-up approach’
7. *D. Bynoe* (2012-2017) ‘Multi-level Governance, Climate Change Adaptation and Agri-environmental Stewardship in a Small Island Developing State’
8. *M. Assaduzzaman* (2010-2016) ‘Climate change and livelihoods in Bangladesh: Vulnerability and adaptation among coastal fishing communities’

MSc students:

1. *Johan de Waard* (2015) Quantifying the impacts of climate-driven flood risk changes and risk perception biases on coastal urban property values: A case study for the North Carolina coastal zone”. My role: 1st supervisor.
2. *Meron Belay Tariku* (2014) “Household energy demand in the Netherlands: application of an agent based model to assess the potential of carbon emission reduction”. My role: 1st supervisor.
3. *Bereket Negasi Isaac* (2013) “Socio-economic Indicators for Appraising Adaptation Measures for Water Stress”. My role: 1st supervisor.
4. *Kelvin Thompson* (2013) “Flood Insurance: Public or Private? On the desirability and feasibility of flood Insurance in the Netherlands”. My role: 1st supervisor.
5. *Amy Maduro* (2012) “The implementation of a quality system in ‘Water management centrum Nederland’ ”. My role: 1st supervisor.
6. *Pascal K. de Vries* (2011) “Een onderzoek naar vertogen bij de doelbepaling van de kaderrichtlijn water”. My role: 1st supervisor

AWARDS STUDENTS UNDER MY SUPERVISION RECEIVED

- | | |
|------|---|
| 2015 | K. de Koning. Best pitch presentation, IGS PhD student day, University of Twente, https://www.utwente.nl/igs/phdandeducation/phdday/ |
|------|---|

REVIEW ACTIVITIES

Journal article reviewer:

Global Environmental Change
Ecological Economics
Environmental and Resource Economics
Journal of Environmental Management
Economic Modeling
Environment and Planning B: Planning and Design
Environmental Modeling & Software
Journal of Artificial Societies and Social Simulation
Computers, Environment and Urban Systems
Landscape Ecology
Ecological Informatics
Physica A
Advances in Complex Systems
Ecological Modeling
Journal of Environmental Psychology
Land Use Policy
Stochastic Environmental Research and Risk Assessment

Grant Reviewer:

1. CORE research funding initiative of the Luxembourg National Research Fund, Luxembourg;
2. Natural Sciences and Engineering Research Council of Canada (NSERC), research funding initiative “Discovery Grant”;
3. Federal Ministry of Education and Research in Germany, research funding initiative "Interaction between land management, climate change and ecosystem services";
4. Wageningen University & Research centre, research funding initiative “Complex Adaptive Systems”.

MEMBERSHIP

2015-present	European Association of Environmental and Resource Economists (EAERE)
2010 - present	Organizer of the Special Interest Group on Spatial and Ecological-Economic issues (SIG-SEE) within the European Social Simulation Association (together with G. Polhill)
2010	International Society for Ecological Economics (ISEE)
2007-present	Member, European Social Simulation Association (ESSA)
2006-present	Member, International Environmental Modelling and Software Society (iEMSs)
2001-2005	Member, International Society for Ecological Economics / Russian Chapter (RSEE)

ACADEMIC SERVICES AND OTHER RELATED ACTIVITIES:

Session (co-) organizer

1. 2015: Special session ‘Social simulations of land, water and energy’, The 11th Conference of the European Social Simulation Association, 14-18 September, Groningen
2. 2014: Thematic Workshop on ‘Analyzing and synthesizing results from complex socio-ecosystem models with high -dimensional input, parameter and output spaces’ at the [7th International Congress on Environmental Modelling and Software](#) (iEMSs 2014), San Diego, USA

3. 2013: Special session on “Adaptive behavior, social interactions and global environmental change: an agent-based perspective”, 9th Conference of the European Social Simulation Association (ESSA 2013), Warsaw, Poland
4. 2012: Special session on “Modelling responses to shocks in coupled socio-ecological systems”, [6th Biennial Meeting: International Congress on Environmental Modelling and Software \(iEMSs 2012\)](#), Leipzig, Germany
5. 2010: Special session on ‘Spatial agent-based models for socio-ecological systems’, [Fifth Biennial Meeting: International Congress on Environmental Modelling and Software \(iEMSs 2010\)](#), Ottawa, Canada

Member of scientific conference committee

1. 2013: [9th Conference of the European Social Simulation Association](#), Warsaw, Poland
2. 2012: of the Track “Applications in Social Science and Organization” at the [Winter Simulation Conference](#), Berlin, Germany
3. 2012: [4th World Congress on Social Simulations](#), Taipei, Taiwan
4. 2012: [8th Conference of the European Social Simulation Association](#), Salzburg, Austria
5. 2011: [7th Conference of the European Social Simulation Association](#), Montpellier, France

Member of the organising committee

1. 2009: International workshop “Agent-based models of land markets”, Macaulay Institute in Aberdeen, UK
2. 2003: International Conference “Economic Development and the Environment: information, modelling and management” held by the Russian Society of Ecological Economics, Baikal, Russia

Secretary of the International Environmental Modelling and Software Society ([iEMSs](#)), 2008-2012

LANGUAGES:

English - fluent
 Russian – native
 Dutch – B2