

Curriculum Vitae

Stefan Hochrainer-Stigler

Key Qualifications

Stefan Hochrainer-Stigler is a senior research scholar at the International Institute for Applied System Analysis (IIASA) in Laxenburg, leading the Risk Analysis and Modelling Theme in the RISK program, and a lecturer at the University of Vienna, the Karlsruhe Institute of Technology and the UME Graduate School at the Institute for Advanced Study, Pavia. In addition, he is member of the board of directors of the Integrated Disaster Risk Management (IDRiM) Society and the board of directors of the Global Alliance of Disaster Research Institutes (GADRI). He studied statistics at the University of Vienna, Department of Statistics and Decision Support Systems, where he received a master's degree in 2002 and a PhD in 2006. Furthermore, he received a master's degree in Sociology (empirical branch) in 2004 at the same University.

His main research interests include risk management of extremes, statistical (stochastic) modeling of rare events, extreme value theory, poverty trap analysis, econometrics, as well as multivariate analysis and probability theory. He has published widely in peer reviewed journals and book chapters. Furthermore, he has held invited presentations in major scientific conferences and (re)insurance meetings. He also has contributed and facilitated workshops (also as a consultant) in Caribbean countries, Madagascar, Turkey, Philippines, India, Nepal, and Mexico.

Professional Experience

- ❑ Research assistant and lecturer at the University of Vienna, Department of Statistics and Decision Support Systems from 2003 till 2006.
- ❑ Lecturer at the University of Vienna since 2006.
- ❑ Lecturer at the Karlsruhe Institute for Technology since 2010.
- ❑ Lecturer at the UME Graduate School since 2011.
- ❑ Research scholar at the International Institute for Applied System Analysis (IIASA), Laxenburg, Austria since 2006.
- ❑ Senior Research Scholar at IIASA since 2012.

Research Interests

- ❑ Quantitative risk management
- ❑ Multivariate analysis
- ❑ Rare events estimation
- ❑ Probability theory
- ❑ Extreme value theory
- ❑ Time series
- ❑ Econometric analysis

Education

- ❑ Doctoral degree (PhD) in Statistics. University of Vienna 3/2006. Thesis title: "Macroeconomic Risk Management against Natural Disasters". Excellence Award.
- ❑ Magister (Masters) in Statistics, University of Vienna, October 2002, Diploma thesis: "Stochastic Processes and Performance Measures in Queuing systems". Excellence Award.
- ❑ Magister (Masters) in Sociology (Empirical branch), University of Vienna, January 2004, Diploma thesis: "Risk Perception and Prevention Measures. An Empirical Study in Schwertberg of the Flooding in August 2002". Excellence Award.
- ❑ Academic year, University of Linz, 1997-1998.
- ❑ Academic (1/2) year, University of Strathclyde, Glasgow, September 2000- February 2001.

Other Skills

- ❑ Languages: English, French,
- ❑ Computer: S-Plus, R, SPSS, SAS, LISREL, Matlab, Maple, Mathematica, Enterprise Miner, Statistix, GLIM4, GAMS, NetLogo, Minitab, C++, Modula II, Fortran, SQL, Powersim Constructor, Latex, HTML.

Personal Information

Born August 6th 1977 in Vöcklabruck (Upper Austria), Austria. Name change to Hochrainer-Stigler in July 2010.

Publications

Peer-reviewed

Books:

1. Hochrainer, S. (2006). Macroeconomic Risk Management against Natural Disasters. *German University Press (DUV)*, Wiesbaden, Germany.

Papers:

Submitted

90. Hochrainer-Stigler, S., Williges, K., Mochizuki, J., Mechler, R. (2016). The costs and benefits to *build back better*: A global analysis of disaster risk reduction strategies (submitted)
89. Hochrainer-Stigler, S., Linnerooth-Bayer, J., Mochizuki, J (2016). Climate change and disaster risk reduction for the poor: A probabilistic Cost Benefit Analysis (submitted)
88. Hochrainer, S. and Lorant, A, (2016). Evaluating Partnerships to Enhance Disaster Risk Management using Multi-Criteria Analysis: An Application at the Pan-European Level (submitted)

87. Mochizuki, J., Schinko, T., Hochrainer-Stigler, S. (2016). "Mainstreaming of Climate Extreme Risk into Fiscal and Budgetary Planning: Application of Stochastic Debt and Disaster Fund Analysis in Austria (submitted)
86. Martins, M.A., Hochrainer-Stigler, S., Pflug, G. (2016) Vulnerability of Agricultural Production in the Brazilian Semi-Arid: An empirical approach including risk (submitted).

Accepted

84. Obersteiner, M., Hochrainer-Stigler, S. et al. (2016). The Value of Global Earth Observations (accepted).
83. Mochizuki, J., Hochrainer-Stigler, S. et al. (2016). An Overdue Alignment of Risk and Resilience Thinking (accepted).

Published

83. Pflug, G., Timonina-Farkas, A. and Hochrainer-Stigler, S. (2017) Incorporating model uncertainty into optimal insurance contract design. *Insurance: Mathematics and Economics*, doi: <http://dx.doi.org/10.1016/j.insmatheco.2016.11.008>
82. Gaupp, F., Pflug, G. Hochrainer-Stigler, S., Hall, J., Dietz, S. (2016). Dependency of Crop Production between Global Breadbaskets: A Copula Approach for the Assessment of Global and Regional Risk Pools Drought risk polling using a copula based approach. *Risk Analysis*, doi: 10.1111/risa.12761
81. Hochrainer-Stigler, S., Desai, B., Williges, K., Maskrey, A., Mechler, R., Mochizuki, J. (2016). Risk-sensitizing Future Investment Needed to Achieve the Sustainable Development Goals. *International Journal of Disaster Risk Reduction*. <http://dx.doi.org/10.1016/j.ijdr.2016.12.005>
80. Mechler, R., Mochizuki, J. and Hochrainer-Stigler, S. (2016) Disaster Risk Management and Fiscal Policy: Entry Points for Finance Ministries. In: Surminski, S. and Tanner, T. (eds.): *Realising the 'Triple Dividend of Resilience' A New Business Case for Disaster Risk Management*, Chapter 4, Springer, Switzerland: pp. 73-104.
79. Aerts, J., Haer, T., Veldkamp, T., Colaço, M.C., Rego F.C., Hochrainer-Stigler, S., Mechler, R., Kellermann, P., Feyen, L., Mysiak, J., Thielen, A. (2016) Risk assessment & information. In: Jeroen Aerts and Jaroslav Mysiak (eds.): *Novel Multi-Sector Partnerships in Disaster Risk Management*, Chapter 2, Enhance, Brussels: pp.32-48.
78. Hochrainer-Stigler, S., Lorant, A. and Petrescu E.C. et al. (2016) Flood Risk: The EUSF and Romania. In: Jeroen Aerts and Jaroslav Mysiak (eds.): *Novel Multi-Sector Partnerships in Disaster Risk Management*, Chapter 13, Enhance, Brussels: pp. 256-270.
77. Hochrainer-Stigler, S., Mochizuki, J., Pflug, G. (2016) Impacts of Global and Climate Change uncertainties for Disaster Risk Projections: A case study on rainfall-induced flood risk in Bangladesh. *Journal of Extreme Events*, doi: 10.1142/S2345737616500044
76. Nilsson, E. Hochrainer-Stigler, S., Mochizuki, J., Uvo, C.B. (2016) Hydro-climatic variability and agricultural production on the shores of Lake Chad. *Environmental Development*, (20): 15-30, <http://dx.doi.org/10.1016/j.envdev.2016.09.001>
75. McCallum, I., Liu, W., See, L., Mechler, R., Keating, A., Hochrainer-Stigler, S., Mochizuki, J., Fritz, S., Dugar, S. Arestegui, M., Szoenyi, M., Laso Bayas, J.C., Burek, P., French, A., Moorthy, I. (2016). Technologies to Support Community Flood Disaster Risk Reduction. *International Journal of Disaster Risk Science*, doi: 10.1007/s13753-016-0086-5.

74. Mochizuki, J., Mechler, R., Keating, A., Callahan, E., Hochrainer-Stigler, S. (2016) If numbers can speak, who listens? Creating Engagement and Learning for Effective Uptake of DRR Investment in Developing Countries. *PLOS Currents Disasters*, doi: 10.1371/currents.dis.ab5922892b54a68f7315e967f6dd3406.
73. Schinko, T., Mechler, R., Hochrainer-Stigler, S. (2016). A methodological framework to operationalize climate risk management: managing sovereign climate-related extreme event risk in Austria. *Mitigation and Adaptation Strategies for Global Change*, doi: 10.1007/s11027-016-9713-0
72. Mechler, R., Mochizuki, J. and Hochrainer-Stigler, S. (2016). Disaster risk management and fiscal policy: narratives, tools, and evidence associated with assessing fiscal risk and building resilience. Policy Research working paper, WPS 7635. Washington, D.C, World Bank Group.
71. Mechler, R. and Hochrainer-Stigler, S. (2016) Revisiting Arrow-Lind: Managing Sovereign Disaster Risk. In: Gopalakrishnan C. (eds.): *Classic Papers in Natural Resource Economics Revisited*, Chapter I.9., Routledge, New York: pp.71-79.
70. Mochizuki, J. Vitoontus, S., Wickramarachchi, B., Hochrainer-Stigler, S., Williges, K. and Mechler, R. (2015). Operationalizing Iterative Risk Management under Limited Information: Fiscal and Economic Risks Due to Natural Disasters in Cambodia. *International Journal of Disaster Risk Science*, 6(4), doi 10.1007/s13753-015-0069-y
69. Borgomeo, E., Pflug, G., Hall, H., and Hochrainer-Stigler, S. (2015). Assessing water resource system vulnerability to unprecedented hydrological drought using copulas to characterize drought duration and deficit. *Water Resources Research*, 51: 8927-8948. doi: 10.1002/2015WR017324
68. Hochrainer-Stigler, S., Linnerooth-Bayer, J. and Lorant A. (2015). The European Union Solidarity Fund: An assessment of its recent reforms. *Mitigation and Adaptation Strategies for Global Change*. doi: 10.1007/s11027-015-9687-3
67. Hochrainer-Stigler, S. (2015). Natural Disasters and Macroeconomic Performance: An Empirical Analysis Based on an Econometric Modelling Approach. *Integrated Disaster Risk Management Journal*, 5(1): 21-41.
66. Hochrainer-Stigler, S, Mechler, R. and Mochizuki, J. (2015) A risk management tool for tackling country-wide contingent disasters: A case study on Madagascar. *Environmental Modelling & Software*, 72: 44-55
65. Sadeghi, M., Hochrainer-Stigler, S., and Ghafory-Ashtiany, G. (2015). Evaluation of earthquake mitigation measures to reduce economic and human losses: a case study to residential property owners in the metropolitan area of Shiraz, Iran. *Natural Hazards*, 78(3): 1811-1826, doi: 10.1007/s11069-015-1801-z
64. Timonina, A., Hochrainer-Stigler, S., Pflug, G., Jongman, B. and Rojas, R. (2015). Structured Coupling of Probability Loss Distributions: Assessing Flood Risk in Multiple River Basin. *Risk Analysis*, 35(11): 2102-2119, doi: 10.1111/risa.12382
63. Williges, K, Hochrainer-Stigler, S., Mochizuki, J., and Mechler, R. (2015). Modeling the indirect and fiscal risks from natural disasters: Emphasizing resilience and “building back better”. Background Paper prepared for the *2015 Global Assessment Report on Disaster Risk Reduction*. Geneva, Switzerland: UNISDR
62. Pretenthaler, F., Kortschak, D., Hochrainer-Stigler, S., Mechler, R., Urban, H., and Steininger, K.W. (2015) Catastrophe Management: Riverine Flooding. In: Steininger et al. (eds.): *Economic Evaluation of Climate Change Impacts: Development of a Cross-Sectoral Framework and Results for Austria*. Springer, New York: pp. 349-366.

61. Pakdel-Lahiji, N., Hochrainer-Stigler, S., Ghafory-Ashtiany, M. and Sadeghi, M. (2015). Consequences of Financial Vulnerability and Insurance Loading for the Affordability of Earthquake Insurance Systems: Evidence from Iran. *The Geneva Papers on Risk and Insurance: Issues and Practices*, 40: 295-315, doi: 10.1057/gpp.2014.35
60. Linnerooth-Bayer, J., Dubel, A., Sendzimir, J, and Hochrainer-Stigler, S. (2015). Challenges for mainstreaming climate change into EU flood and drought policy: Water retention measures in the Warta River Basin, Poland. *Regional Environmental Change*, 15(6): 1011-1023. doi 10.1007/s10113-014-0643-7
59. Linnerooth-Bayer, J. and Hochrainer-Stigler, S. (2015). Financial Instruments for Disaster Risk Management and Climate Change Adaptation. *Climatic Change*, 133(1): 85-100. DOI: 10.1007/s10584-013-1035-6.
58. Hochrainer-Stigler, van der Velde, M., Fritz, S., and Pflug, G. (2014). Remote Sensing Data for Managing Climate Risks: Index-based insurance and growth related applications for smallhold-farmers in Ethiopia. *Climate Risk Management*, 6: 27-38, <http://dx.doi.org/10.1016/j.crm.2014.09.002>
57. Jongman, B., Hochrainer-Stigler, S., Feyen, L., Aerts, C.J.H., Mechler, R., Botzen W.J., Bouwer, L.M., Pflug, G., Rojas, R., and Ward, P.J. (2014). Reply to 'Statistics of flood risk'. *Nature Climate Change* 4: 844–845, doi:10.1038/nclimate2376
56. Pakdel-Lahiji, N., Hochrainer-Stigler, S., Ghafory-Ashtiany, M and Sadeghi, M. (2014). Risk Management Strategies for Managing Natural Disaster Risks: A case Study in Shiraz City, Iran. *Proceedings of the 10th National Conference in Earthquake Engineering*, Earthquake Engineering Research Institute, Anchorage, AK, 2014. Available at http://user.iiasa.ac.at/~hochrain/2014_Pakdel_Lahiji_et%20al._10NCEE.pdf
55. Sadeghi, M., Hochrainer-Stigler, S., Ghafory-Ashtiany, M. and Pakdel-Lahiji N. (2014). Earthquake Risk Modeling for the Evaluation of Losses to Property Owners in the Metropolitan Area of Shiraz. *Proceedings of the 10th National Conference in Earthquake Engineering*, Earthquake Engineering Research Institute, Anchorage, AK, 2014. Available at http://user.iiasa.ac.at/~hochrain/2014_Sadeghi%20et%20al._10NCEE.pdf
54. Mochizuki, J., Mechler, R., Hochrainer-Stigler, S., Keating, A., and Williges, K. (2014). Revising the ‘disaster and development’ debate - toward a broader understanding of macroeconomic risk and resilience. *Climate Risk Management* 3: 39-54, <http://dx.doi.org/10.1016/j.crm.2014.05.002>
53. Mechler, R., Bower, L.M., Linnerooth-Bayer, J, Hochrainer-Stigler, S., Arts, C.J.H., Surminski, S. and Williges, J. (2014). Managing Unnatural Disaster Risk from Climate Extremes. *Nature Climate Change* 4: 235-237. Doi: 10.1038/nclimate2137
52. Jongman, B., Hochrainer-Stigler, S., Feyen, L., Aerts, C.J.H., Mechler, R., Botzen W.J., Bouwer, L.M., Pflug, G., Rojas, R., and Ward, P.J. (2014). Increasing Stress on Disaster-risk Finance due to Large Floods. *Nature Climate Change* 4: 264-268. Doi: 10.1038/nclimate2124
51. Hochrainer-Stigler, S., Mechler, R., Pflug, G. and Williges, K. (2014). Funding Public Adaptation to Climate-Related Disasters. Estimates for a Global Fund. *Global Environmental Change* 25: 87-96, <http://dx.doi.org/10.1016/j.gloenvcha.2014.01.011>
50. Yazdanpanah, M., Hayati D., Hochrainer-Stigler, S., and Zamani G.H. (2014). Understanding Farmers‘ Intention and Behavior Regarding Water Conservation in the Middle-East and North Africa: A case study in Iran. *Journal of Environmental Management*, 135: 63-72.
49. Mechler, R. and Hochrainer-Stigler, S. (2014) Revisiting Arrow-Lind: Managing Sovereign Disaster Risk. *Journal of Natural Resources Policy Research*, 6(1): 93-100.

48. Hochrainer-Stigler, S., Luger, N., and Radziejewski, M. (2014). Up-scaling of Impact Dependent Loss Distributions: A Hybrid-Convolution Approach. *Natural Hazards*, 70(2): 1437-1451. doi 10.1007/s11069-013-0885-6
47. Yazdanpanah, M., Monfared, N., and Hochrainer-Stigler, S. (2013). Inter-Related Effects due to Droughts for Rural Populations: A Qualitative Field Study for Farmers in Iran. *International Journal of Mass Emergencies and Disasters*, 31(2): 106-129
46. Michel-Kerjan, E., Hochrainer-Stigler, S., Kunreuther, H., Linnerooth-Bayer, Mechler, R., Muir-Wood, R., Ranger, N., Vaziri, P., and Young, M. (2013). Catastrophe Risk Models for Evaluating Disaster Risk Reduction Investments in Developing Countries. *Risk Analysis*, 33(6): 984-999. doi: 10.1111/j.1539-6924.2012.01928.x.
45. Hochrainer-Stigler, S., Timonina, A., Williges, K., Pflug, G. and Mechler, R. (2013). Modelling the Indirect and Fiscal Risks from Natural Disasters Using the CatSim Model. Background Paper prepared for the 2013 *Global Assessment Report on Disaster Risk Reduction*. Geneva, Switzerland: UNISDR. <http://www.preventionweb.net/gar>
44. Yazdanpanah, M., Zamani, Gh.H., Hochrainer-Stigler, S., Monfared, N. and Yaghoubi, J. (2013). Measuring Satisfaction with Crop Insurance: A Modified American Customer Satisfaction Model Approach Applied to Iranian Farmers. *International Journal of Disaster Risk Reduction*, 5(1): 19-27. <http://dx.doi.org/10.1016/j.ijdrr.2013.04.003>
43. Helgeson, J., Dietz, S. and Hochrainer-Stigler, S. (2013). Vulnerability to weather disasters: the choice of coping strategies in rural Uganda. *Ecology and Society*, 18(2):2 <http://dx.doi.org/10.5751/ES-05390-180202>
42. Kull, D., Mechler, R., and Hochrainer-Stigler, S. (2013) Probabilistic Cost-Benefit Analysis of Disaster Risk Management in the Development Context. *Disasters*, 37(3): 374-400. doi: 10.1111/disa.12002.
41. Yazdanpanah, M., Hayati, D., Zamani, Gh.H., Karbalaee, F. and Hochrainer-Stigler, S. (2013). Water Management from Tradition to Second Modernity: An Analysis of the Water Crisis in Iran. *Environment, Development and Sustainability*, 15(6): pp. 1605-1621. doi 10.1007/s10668-013-9452-2.
40. Hochrainer, S. and Mechler, R. (2013). Assessing Financial Adaptation Strategies to Extreme Events in Europe. In: Siebenhüner, B., Arnold, M., Eisenack, K., and Jacob, H. K. (eds.): *Long-Term Governance for Social-Ecological Change*. New York, Routledge: pp. 93-112.
39. Mechler, R., Hochrainer, S., Linnerooth-Bayer, J. and Pflug, G. (2013). Public Sector Financial Vulnerability to Disasters. The IIASA CatSim Model. In: Birkmann, J. (eds.): *Measuring Vulnerability to Natural Hazards. Towards Disaster Resilient Societies*. Revised and extended Second Edition, Tokyo, United Nations University Press: pp. 380-398.
38. Mechler, R., Hochrainer-Stigler, S. and Nakano, K. (2013). Managing Indirect Economic Consequences of Disaster Risk: The Case of Nepal. Modelling the Economic Effects of Disaster Risk in Nepal. In: Amendola et al. (eds.): *Integrated Catastrophe Risk Modeling. Supporting Policy Processes*. Advances in Natural and Technological Hazards Research, New York, Springer, pp. 145-169
37. Hochrainer-Stigler, S., Pflug, G. and Luger, N. (2013). Flood Risk in a Changing Climate: A Multilevel Approach for Risk Management. In: Amendola et al. (eds.): *Integrated Catastrophe Risk Modeling. Supporting Policy Processes*. Advances in Natural and Technological Hazards Research, New York, Springer, pp. 263-280
36. Vari, A., Ferencz, Z., and Hochrainer-Stigler, S. (2013). Social Indicators of Vulnerability to Floods: An Empirical Case Study in the two Upper Tisza Flood Basins. In: Amendola et

- al. (eds.): *Integrated Catastrophe Risk Modeling. Supporting Policy Processes*. Advances in Natural and Technological Hazards Research, New York, Springer, pp. 181-198
35. Hochrainer-Stigler, S., Mechler, R. and Pflug, G. (2013). Modeling Macro Scale Disaster Risk: The CATSIM Model In: Amendola et al. (eds.): *Integrated Catastrophe Risk Modeling. Supporting Policy Processes*. Advances in Natural and Technological Hazards Research, New York, Springer, pp. 119-144.
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 33. Hochrainer-Stigler, S., Sharma, R.B, and Mechler, R. (2012). Disaster Microinsurance for Pro-Poor Risk Management: Evidence from South Asia. *Journal of Integrated Disaster Risk Management*, 2(2): 1-19.
 32. Kumar, A., Arambepola, N., Mechler, R., and Hochrainer-Stigler, S. (2012). An Approach for National Earthquake Risk Assessment: Case Study for Nepal. Proceedings of the 15th World Conference on Earthquake Engineering (WCEE), Lisbon, Portugal.
 31. Lal, P.N., T. Mitchell, P. Aldunce, H. Auld, R. Mechler, A. Miyan, L.E. Romano, S. Zakaria, (Lead authors) and Hochrainer, S. et al. (Contributing authors) (2012). National systems for managing the risks from climate extremes and disasters. In Field, C.B., V. Barros, T.F. Stocker, D. Qin, D.J. Dokken, K.L. Ebi, M.D. Mastrandrea, K.J. Mach, G.-K. Plattner, S.K. Allen, M. Tignor, and P.M. Midgley (eds.). *Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation. A Special Report of Working Groups I and II of the Intergovernmental Panel on Climate Change (IPCC)*. Cambridge University Press, Cambridge, UK, and New York, NY, USA, pp. 339-392.
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- Europe – Review of Projections for the Future. *Mitig. Adapt. Strat. Glob. Change*, 15 (7): 641-656.
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 16. Hochrainer, S. (2009). The European Union Solidarity Fund: Assessing its Risk of Depletion due to Catastrophe Flood Events. *Annals. Economic Science Series*, 15(1): 35-41.
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 14. Hochrainer, S., Mechler, R., Kull, D., Singh, P., Chopde, S., and Wajih, S. (2009). Combining Innovative Strategies for Effective Drought Risk Management: Costs and Benefits of Insurance and Irrigation in Uttar Pradesh, India. In: Moench, M., Fajber, E., Dixit, A., Caspari, E., and Anil Pokhrel (eds.): *Catalyzing Climate and Disaster Resilience*. Kathmandu, ISET: 223-250.
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58. Hochrainer-Stigler, S. (2016) (invited Speaker). The IIASA CatSim Model. 7th International Conference on Integrated Disaster Risk Management. 1-3 October, Isfahan, Iran.
57. Hochrainer-Stigler, S. (2016). Systemic and Extreme Risks: Ways forward for a Joint Framework. 7th International Conference on Integrated Disaster Risk Management. 1-3 October, Isfahan, Iran.

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55. Hochrainer-Stigler, S. (2016) (invited Panel Speaker): The Role of Risk Modeling to Manage Earthquake Risk and Promote Catrisk Insurance in the Middle East. 7th International Conference on Integrated Disaster Risk Management. 1-3 October, Isfahan, Iran.
54. Hochrainer-Stigler, S. (2016) (invited Panel Speaker): IIASA-MoE-IIES Roadmap for Economic Resilience of Electricity Network. 7th International Conference on Integrated Disaster Risk Management. 1-3 October, Isfahan, Iran.
53. Hochrainer-Stigler, S., and Poledna, S. (2016) Modelling Dependent Risk with Copulas: An Application On Flooding Using Agent-Based Modelling. International Conference: Data Intensive System Analysis for Geohazard Studies. 18-21 July, 2016, Sochi region, Mountain cluster, Russia.
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45. Hochrainer-Stigler, S (2014) (Invited Panel Speaker). Disaster Risk from Different View Points. The 5th IDRiM Conference: Building Disaster Resilient Communities, October 29th- 1st November, 2014, London, Ontario, Canada
44. Hochrainer-Stigler, S (2014) (Invited) Climate Risk Management Towards a risk-layer approach. Water Innovation Europe 2014 Conference. Water in Europe: green tape or blue gold, June 25-26, 2014, Brussels, Belgium.
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42. Hochrainer-Stigler, S. (2014) Catastrophe Risk Modeling to Inform Proactive Public Finance for Disasters: Focus on Madagascar. EMCSR 2014 Conference, Civilisation at the Crossroads, 22-25 April 2014, Vienna

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37. Hochrainer-Stigler, S. (2013). Modelling Multi-Risk and Risk Management. Invited Press Conference from the European Geosciences Union General Assembly, 07-12 April, 2013, Vienna, Austria.
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22. Hochrainer, S., Mechler, R., and Pflug, G. (2009). Assessing current and future impacts due to climate-related extreme events and global change. The case of Bangladesh. International IIASA-DPRI Conference: Integrated Disaster Risk Management, 12-16 October, 2009, Kyoto, Japan.
21. Mechler, R., Hochrainer, S. and Linnerooth-Bayer (2009). Legitimacy, Viability and Efficiency of the EU Solidarity Fund. 8th International Conference of the European Society of Ecological Economics. University of Ljubljana, Slovenia, 29 June – 2 July, Ljubljana, Slovenia.
20. Hochrainer, S. (2009). The EU Solidarity Fund: Assessing its risk of depletion due to catastrophe flood events. International Conference: The Knowledge in the Space of United Europe, Timisoara, 29-30 May, Romania.
19. Mechler, R. Lavallo, C. Lugeri, N., Moriondo, M., Hochrainer, S. and Kundzewicz, Z. (2009). Mapping Europe's current and future flood and drought risks. ADAM Final Policy Conference: Deciding on Climate Change: Europe's Role and Policies. Hosted by CEPS, 12-14 May, 2009, Brussels, Belgium.
18. Mechler, R., and Hochrainer, S. (2009). Index-based insurance as a Risk Management Instrument. Climate Change Conference: Global Risks, Challenges and Decisions, Copenhagen, 10-12 March, 2009, Denmark.
17. Hochrainer, S. and Linnerooth-Bayer, J. (2009). The MCII Proposal: Questions Related to Coping Capacities and Resource Gap Estimations on the Global Scale. Climate Change Conference: Global Risks, Challenges and Decisions, Copenhagen, 10-12 March, 2009, Denmark.
16. Hochrainer, S., Mechler, R., Pflug, G., Linnerooth-Bayer, J. and Suarez, P. (2008). Feasibility of Risk Financing Schemes for Climate Adaptation. IDRC International Disaster and Risk Conference, 25-29 August, 2008, Davos, Switzerland.
15. Lugeri, N, Hochrainer, S., Mechler, R., Bindi, M. Moriondo, M., Orioli, L., Genovese, E., Lavallo, C., Barredo, J. (2008). Assessing extreme event risks and consequences over Europe. ADAM General Assembly, 10-14 March, 2008, Budapest.
14. Hochrainer, S., Mechler, R. and Pflug, G. (2007). Catastrophe Modeling: Assessing current and future impacts due to climate-related extreme events and global change. The case of Bangladesh. IFIP/IIASA/GAMM Workshop on Coping with Uncertainty (CwU): Robust Decisions, 10-12, December, 2007, IIASA, Laxenburg, Austria

13. Patt, A, Hochrainer, S, Mechler, R., Linnerooth-Bayer, J., and Pflug, G. (2007) Managing climate risks for security and development. Background paper for IIASAs 35th Anniversary Conference.
12. Mechler, S and Hochrainer, S. (2007). Estimating the economic vulnerability and risk to extreme events for Europe: Insights from the ADAM (Adaptation and Mitigation) project. SHIFT 07 Conference. Perspectives of Vulnerability and Hazard Assessment, Potsdam, Germany 04-05 October, 2007.
11. Hochrainer, S., Mechler, R. and Pflug, G. (2007). Impact of Climate Change on the Robustness of Index-Based Microinsurance in Malawi. 7th IIASA-DPRI Conference on Integrated Disaster Risk Management, Stresa, Italy, 19-21 September, 2007.
10. Hochrainer, S. and Mechler, R. (2007). Estimating Economic Vulnerability and Risk to Extreme Events for Europe. Insights from the Adam (Adaptation and Mitigation) project. 7th IIASA-DPRI Conference on Integrated Disaster Risk Management, Stresa, Italy, 19-21 September, 2007.
9. Hochrainer, S. (2007). Drought Risk Management and Climate Change Uncertainties. 11th Conference on Stochastic Programming, Vienna, Austria, 27-31 August, 2007.
8. Bach, D., Mechler, R., Hochrainer, S., Lerner-Lam, A. (2006). Dynamic Natural Disaster Risk Assessment: A case study for Jamaica. American Geophysical Union, Fall Meeting 2006.
7. Mechler, R., Hochrainer, S., Pflug, G. and Linnerooth-Bayer, J. (2006). Financial Preparations in the Caribbean for the Hurricane Season: An application of IIASA's CatSim Model. Paper presented at the sixth DPRI-IIASA forum on integrated Disaster Risk Management, 13-17 August, Istanbul.
6. Cardenas, V., Hochrainer, S., Mechler, R. and Pflug, G. (2005). Assessing the Financial Management of Public Sector Disaster Risk: The Mexican Case. Paper presented at the fifth annual IIASA-DPRI Conference, 14-18 September, Beijing, China.
5. Linnerooth-Bayer, J., Hochrainer, S., Mechler, R. and Pflug G. (2005). Disaster Risk Transfer for Developing Countries. American Geophysical Union, Fall Meeting 2005.
4. Hochrainer, S. and Pflug, G. (2005). Optimizing Financial Strategies for Governments against the Economic Impacts of Natural Disasters in Developing Countries. Paper presented at the fifth annual IIASA-DPRI Conference, 14-18 September, Beijing, China.
3. Hochrainer, S., Mechler, R. and Pflug, G. (2004). Financial natural disaster risk management for developing countries. Proceedings of the EAERE conference, 26-28 Juni 2004, Budapest.
2. Hochrainer, S, Mechler, R. and Pflug, G.(2004). Financial Strategies in Disaster Risk Management for Developing Countries. Paper presented at the 4rd international symposium on integrated disaster risk Management, IDRM-2004, 2-9 July 2004, Ravello, Italy.
1. Hochrainer, S., Mechler, R. and Pflug, G. (2003) Optimal Financial Disaster Risk Management for Developing Countries. Paper presented at the 3rd international symposium on integrated disaster risk management, IDRM-2003, 3-5 July 2003, Kyoto, Japan.

Other Presentations

33. Hochrainer-Stigler, S. (2016). Katastrophen und Extreme - können wir uns vor den Folgen schützen? 4. Laxenburger Klima- und Energietag, 19. May, Laxenburg Austria
32. Hochrainer-Stigler, S. (2016) Pan-European Risk Management Strategies. Case Study 10. Final Project Meeting, Enhance, January, 13-14, Innsbruck, Austria.

31. Hochrainer-Stigler, S. (2015) Risk Assessment on the Pan European Level and specific applications to Romania. ENHANCE annual meeting, 8 – 11, June, 2015, Reykjavik, Iceland.
30. Hochrainer-Stigler, S. (2015) Catastrophe Risk Management and Climate Change. The case of Austria. Stakeholder Workshop “Cost of Inaction”, COIN, 22 January, 2015, Vienna, Austria.
29. Hochrainer-Stigler, S. (2014). Natural Disaster Risk in Romania. Enhance Workshop. University of Economic Studies, 23 October 2014, Bucharest, Romania.
28. Hochrainer-Stigler, S. (2014). Public hearing of the European Union (Invited Speaker). Reforming the European Union Solidarity Fund. Improving its Solidarity, Robustness and Efficiency from a Risk-based Perspective, 22 January 2014, Brussels, Belgium.
28. Hochrainer-Stigler, S. (2014). Risk-based Assessment of Extremes using Copula Approaches. ENHANCE annual meeting, 13-15 January, Lisbon, Portugal.
27. Hochrainer-Stigler, S. (2013). Decision Support against Extremes. Workshop on Frontiers in Systems Analysis: Methodological Advances. Session on Decision Analysis. IIASA and Aalto University, Finland, 5 November 2013, IIASA, Laxenburg, Austria.
26. Hochrainer-Stigler, S. (2013). Risk Dynamics of Extremes. Water Futures and Solutions Project Group Meeting. IIASA, 6-8 May, Laxenburg.
25. Mechler, R. and Hochrainer-Stigler, S. (2012). IIASA perspective on socio-economic disaster impact modelling. Scientific Seminar on Natural Disasters: Bridging Science-Based Early Warning and Early Action Decision Making. Centre Albert Borschette, 7-8 November, Brussels.
24. Hochrainer-Stigler, S. (2012). Time Dependency: Social and Economic Vulnerability in Multi-Risk Situations. Annual (2nd) MATRIX Meeting, Naples, Italy, 29th to 31st October.
23. Hochrainer-Stigler, S. (2012). Crop Modelling and Index-based Insurance using Satellite Remote Sensing Data. Scientific Advisory Committee meeting on ISAC, Copenhagen, 19 October.
22. Hochrainer-Stigler, S. (2012). “Quantification of Tangibles and Intangibles in a Multi-risk setting”. MATRIX Work Package Meeting, Oslo, 26 - 27 June, 2012, Organized by the Norwegian Geotechnical Institute (NGI).
21. Hochrainer-Stigler, S. (2012). “Intangibles and cascading effects: towards a systems analytical perspective of disaster risk”. Workshop on “Global Disaster Risk Analysis and the Economics of Disaster Risk Management”, 12 – 13 June 2012, Organized by IIASA and UNISDR, Laxenburg, Austria
20. Hochrainer-Stigler, S. (2012). “Intangibles and cascading effects: towards a systems analytical perspective of disaster risk”. Workshop on “Global Disaster Risk Analysis and the Economics of Disaster Risk Management”, 12 – 13 June 2012, Organized by IIASA and UNISDR, Laxenburg, Austria
19. Hochrainer-Stigler, S. (2012). “Risk Assessment and Loss Financing Strategies for Governments in Developing Countries. A process based approach.” Workshop on “Financial and Economic Disaster Risks in Madagascar Implementation and use of the CatSim Approach”, 29 April – 04 May 2012, Antananarivo, Madagascar.
18. Hochrainer-Stigler, S. (2011). A Framework for assessment of tangible and intangible losses in a multi risk and multi criteria setting. Presentation within the 1st General Assembly of New Multi-Hazard and Multi-RISK Assessment MethodS for Europe (Matrix) project. 10th to 12th October, 2011, Paris, France.
17. Hochrainer-Stigler, S. (2011). Time dependent vulnerability: Evolution of Social and Economic Vulnerability. Presentation within the 1st General Assembly of New Multi-Hazard

- and *MuTi-RiSk Assessment MethodS* for Europe (Matrix) project. 10th to 12th October, 2011, Paris, France.
16. Hochrainer-Stigler, S. (2011). Effective decision-making on climate change impacts and adaptation. International Workshop on Governance of Climate-Related Risks in Europe. The need for policy oriented research. September, 8-9, 2011, European Commission, DG ENV/CLIMA/ECHO, Brussels, Belgium.
 15. Hochrainer-Stigler, S. (2011). Natural Catastrophe Insurance Markets. Workshop on Risk Financing Instruments for Adaptation in the EU. June 6, 2011, Brussels, Belgium.
 14. Hochrainer-Stigler, S. (2011) Urban Risk Management against Disaster Risk. International Workshop on Mainstreaming Disaster Risk Reduction into Development Strategies, 20-21 January, Ahmedabad, India.
 13. Hochrainer-Stigler, S. (2011) Financial Risk Management against Extreme Risks. International Workshop on Mainstreaming Disaster Risk Reduction into Development Strategies, 20-21 January, Ahmedabad, India.
 12. Integrating Natural Disaster Risk into National Development Planning: New issues and rising paradigms for flood risks. Presentation at Meeting with Asian countries Flood Risk decision makers. 19 October, 2009, Bangkok, Thailand.
 11. Assessing and Managing Europe's current and future flood and drought risks. Vulnerability and disaster risk mapping workshop, EEA, Copenhagen, 2 July, 2009.
 10. Cost Benefit Analysis of Flood risks on the Household level. Wharton-IIASA-RMS Meeting, 21-23 April, 2009, Wharton School, Philadelphia.
 9. Estimation of future catastrophe losses with and without Earth-observation data. Geo-Bene Meeting, 23-24 June 2008, IIASA, Laxenburg.
 8. Value of Information of Improved Weather Data and Land Use for Index-based Insurance Schemes. Geo-Bene Meeting Benefit Area –Disasters. November, 2007, IIASA, Laxenburg.
 7. Rare events estimation and Catastrophe risk management: Comparing time-series analysis with Earth-observation based engineering approaches. 1st Annual Geo-Bene Meeting , 19-20 June 2007, IIASA, Laxenburg.
 6. Economic vulnerability and direct risk assessment. Adam Meeting, 11-13 September 2007, Potsdam Institute for Climate Change Research (PIK), Germany
 5. From Direct Risk to Financial Vulnerability. Presentation, Adam A.2. Workpackage Meeting, 24. July 2007, Joint Research Centre (JRC) of the EU Commission, Ispra, Italy.
 4. Risk maps and Probability concepts, Value of Improved Geo-and Weather Information, Case Study Malawi. Presentation, GeoBene Meeting, 3-6, June, 2007, International Institute for Applied System Analysis (IIASA), Laxenburg, Austria.
 3. Risikomanagement von Naturgefahren auf nationaler Ebene. Presentation, Benfield Re Day „Naturgefahren und Ratings“, 3. Mai 2007, Zürich, Swiss.
 2. Catastrophe Modeling and Risk Management. Presentation, DFID Methodology Meeting (Department for International Development), 12-18 February 2007. Nepal, Kathmandu.
 1. The Stern review and the economics of risk. Presentation with R. Mechler. Adam (Adaptation and Mitigation) Assembly, 19-23 March 2007. Barcelona, Spain.

Workshops

24. Quantitative Resilience Measurement Tool Workshop: Different Perspectives of Resilience in Regards to Indicator Sources, 8-10 November, Wharton Business School, Philadelphia, United States.

23. Workshop Water-Risk: Assessing flood and drought risk given climate change. Water related Risk Management workshop, 5 October, Tehran, Iran.
22. Workshop Systemic-Risks (Co-leading): Grid networks, systemic and extreme risks. 4 October, Tehran, Iran.
21. Leader workshop: Financing Natural Disaster Losses in the European Union – The role of insurance and the European Solidarity Fund, Brussels, Key Ministry-Insurance stakeholder workshop on the Pan European level, 6 October, 2015, Belgium
20. Stakeholder Workshop: “Cost of Inaction”, Economic Evaluation of Climate Change Impacts: Development of a Cross-Sectoral Framework and Results for Austria. COIN, 22 January, 2015, Vienna, Austria
19. Workshop Enhance: “Risk Assessment and Multi-Stakeholder Partnerships”. University of Economic Studies, 23 October 2014, Bucharest, Romania.
18. Workshop on Frontiers in Systems Analysis: Methodological Advances. Session on Decision Analysis. IIASA and Aalto University, Finland, 5 November 2013, IIASA, Laxenburg, Austria.
17. IIASA 40th Anniversary Conference. Session 7: “Addressing the Challenges Concurrently Science and Technology for Sustainable Development”, 24-26 October 2012, Worlds Within Reach: From Science to Policy, Vienna, Austria.
16. Workshop on “Global Disaster Risk Analysis and the Economics of Disaster Risk Management”, 12 – 13 June 2012, Organized by IIASA and UNISDR, Laxenburg, Austria.
15. Senior Research Leader: Workshop on “Financial and Economic Disaster Risks in Madagascar Implementation and use of the CatSim Approach”, 29 April – 04 May 2012, Antananarivo, Madagascar.
14. Expert Group Workshop on Global Risk Modelling (invited). OECD Global Science Forum. February, 9-8, 2012, European Commission, Research and Innovation, Brussels, Belgium.
13. International Workshop on Governance of Climate-Related Risks in Europe. The need for policy oriented research. September, 8-9, 2011, European Commission, DG ENV/CLIMA/ECHO, Brussels, Belgium.
12. Workshop on Application of economic instruments for adaptation to climate change. June, 6-7, 2011, European Commission, Brussels, Belgium.
11. International Workshop on Mainstreaming Disaster Risk Reduction into Development Strategies. The Case of Gujarat. January, 20-21, 2011, Sardar Patel Institute of Economic and Social Research, Ahmedabad, India.
10. Asian Disaster Preparedness Workshop: Catastrophe Modelling Approaches for Assessing Economic Risk. October, 17-18, 2009, Asian Institute of Technology (AIT), Bangkok, Thailand.
9. Adam Policy Workshop: The EU Solidarity Fund. Its legitimacy, viability and robustness. May 14-15, 2009, Brussels, Belgium.
8. ProVention, World Bank Workshop: Protection financière de l’Etat face au Risque de catastrophes. September 03-04, 2008, Antananarivo, Madagascar.
7. ProVention Consortium. Workshop on Assessing and Managing Disaster Risk in Madagascar. February 26-29, 2008, IIASA, Laxenburg, Austria. Webpage: <http://www.iiasa.ac.at/docs/HOTP/Feb08/madagascar-agenda.pdf>
6. IFIP/IIASA/GAMM Workshop on Coping with Uncertainty (CwU): Robust Decisions. December, 10-12, 2007, IIASA, Laxenburg, Austria.
5. Expert Meeting on Insurance Instruments for Adaptation to Climate Risks. September, 24-25, 2007, IIASA, Laxenburg, Austria. Webpage: <http://www.iiasa.ac.at/Research/RAV/conf/ICR-07/icr-agenda.pdf>

4. World Bank Workshop: Fiscal Management against Cyclone Risk for Madagascar. July, 12-13, 2007, Antananarivo, Madagascar. Webpage:
<http://www.iiasa.ac.at/~hochrain/Madagascar>
3. Technical Workshop: Management of Disaster Risk through Fiscal and Budget Planning. June 26-27, 2006, Barbados. Webpage:
http://www.iadb.org/sds/ENV/publication/gen_2530_4458_e.htm.
2. IFIP/IIASA/GAMM Workshop on Coping with Uncertainty. December 13-16, 2004, IIASA, Laxenburg, Austria. Webpage:
<http://www.iiasa.ac.at/~marek/wrksp/cwu04/>
1. ProVention Consortium Workshop: Financial Management of Disaster Risks. April 21-23, 2004, Laxenburg, Austria. Webpage:
http://www.iiasa.ac.at/Research/RAV/Projects/Risk_Management.html?sb=6

Teaching Experience

PhD Supervisor for Young Summer Scientist Program at IIASA:

- Franziska, Gaupp (2015) Risks of correlated wheat yield losses in the global breadbaskets.
- Erik, Nilsson (2015) Socio-hydrological dynamics in the Lake Chad district in Chad.
- Edoardo, Borgomeo (2014) Modelling vulnerability to drought in water supply systems.
- Minella, Martins (2014) Vulnerability Risk Index of Agricultural Production in Brazil.
- Sadeghi, Mehdi (2013) Earthquake risk modeling for the evaluation of mitigation measures in the Metropolitan Area of Shiraz, Iran.
- Naghmeh, Pakdellahi (2013) Earthquake risk management and coping strategies for managing natural-disaster risks: A case Study in Shiraz, Iran.
- Asjad, Naqvi (2012) Agent-based simulation for natural disaster risks.
- Anubhab, Pattanayak (2012) Poverty, risk and climate change in rural India.
- Javeria, Ashraf (2011) Vulnerability of Pakistan's agriculture sector to climate extremes.
- Xilei, Pang (2011) Risk analysis of typhoon induced flooding. A case study of Guang Zhou.
- Wenfang, Chen (2010) Modelling of Typhoon Wind Speeds on the Local Level.
- Samrat, Chatterjee (2009) Extreme events modelling based on an all hazard approach.
- Vicarelli, Marta (2008) Rainfall distribution and El-Nino Effects on Index-based insurance.
- Jing, Liu (2007) Assessment Modeling of Regional Flood Disaster Resilience.
- Dalia, Bach (2006) Dynamic Natural Disaster Risk Assessment: A Case Study for Jamaica.

University Karlsruhe:

- Seminar/Lecture: 2016: Modeling, Measuring and Managing of Extreme Risks (2 hours/week)
- Seminar/Lecture: 2015: Modeling, Measuring and Managing of Extreme Risks (2 hours/week)
- Seminar/Lecture: 2014: Modeling, Measuring and Managing of Extreme Risks (2 hours/week)
- Seminar/Lecture: 2013: Modeling, Measuring and Managing of Extreme Risks (2 hours/week)
- Seminar/Lecture: 2012: Public Sector Risk Management (2 hours/week)
- Seminar/Lecture: 2011: Public Sector Risk Management (2 hours/week)
- Seminar/Lecture: 2010: Public Sector Risk Management (2 hours/week)
- Seminar, 2009: Extreme Value Theory (2 hours/week).

Summer School, Vienna University of Technology:

- Summer School on Risk 2015: Modelling and Management of Extreme Risk (4 hours/week)

University Vienna:

- Seminar, 2009: Extreme Value Theory (2 hours/week).

Seminar, 2008: Rare Events and Catastrophe Risk Management (2 hours/week).
Seminar, 2007: Rare Events and Catastrophe Risk Management (2 hours/week).
Seminar, 2005: Mathematics, Logics and System Theory (2 hours/week).
Seminar, 2004: Statistics I (2 hours/week) and Statistics II (2 hours/week).
Tutorial, 2003: Statistics in Economics (2 hours/week).

Vienna University of Economics and Business:

Seminar, 2013: Disaster risk management and climate adaptation: Bolstering socio-economic resilience. Part of Environmental Change and Policy II Lecture Series (4 hours/week)

Institute for Advanced Studies, Pavia. UME Graduate School.

Lecture: 2012: Economics of Natural disaster risk (4 hours/week)

Activities

- Member of the Board of Directors of the Integrated Disaster Risk Management (IDRiM) Society
- Member of the Board of Directors of the the Global Alliance of Disaster Research Institutes (GADRI)
- Member of the Editorial Board of the International Journal of Climate Change Strategies and Management
- Member of the IIASA Peccei and Mikhalevich Award Committee
- Member of the IIASA Internal Research Council for YSSP selection
- Organization committee member in various scientific conferences (2007, 2008, 2009, 2010, and 2011, 2012, 2013,2014,2015)
- Head of the Integrated Disaster Risk Management Society Newsletter.
- Election Committee member of the IDRiM Board of Directors

Active Referee-Scientific Journals

International Journal for Integrated Disaster Risk Management, International Journal of Disaster Risk Reduction, Climate and Development, International Journal of Environmental Research and Public Health, Applied mathematical Modelling, Risk Analysis, OR Spectrum, Regional Environmental Change, Environment Development and Systainability, Journal of Risk Research, Natural Hazards, Disasters, World Development, Weather Climate and Society, Cities, Journal of Natural Disaster Science, Journal of Risk and Insurance, Risk Management and Insurance Review, Journal of Risk and Uncertainty, Environmental Hazard, The Geneva Papers on Risk and Insurance, Geneva Risk and Insurance Review, Global Environmental Change, Habitat International, Philosophical Transactions A.

Research Grant Referee

Natural Environment Research Council, United Kingdom

Axa research fund, France

US National Science Foundation, United States

Technology Foundation STW, Netherlands

SHEAR programme, Science for Humanitarian Emergencies and Resilience, United Kingdom

DFG, German Research Foundation, Germany

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