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1 HIGHER EDUCATION QUALIFICATIONS

1984-1988	Department of Geography, University of Toronto BSc in Physical Geography and Environmental Management
1988-1990	Department of Geography, McMaster University MSc in Physical Geography (Climatology)
1995-1999	School of Geography, University of Leeds PhD in Fuzzy Logic Applications in Geography
2000-2002	University of Leeds Postgraduate Certificate in Learning and Teaching for HE

2 POSITIONS HELD

Oct 2010 – present	International Institute of Applied Systems Analysis, Austria Post: Senior Research Scholar
Apr 2011 – Mar 2014	Centre for Applied Spatial Analysis, University College London (UCL) Post: Honorary Senior Lecturer; TALISMAN Training Co-ordinator
Oct 2010 – Sep 2013	School of Geography, University of Leeds Post: Visiting Research Fellow
Aug 2004 – Sep 2010	School of Geography, University of Leeds Post: Senior Lecturer
Sep 2000 – Jul 2004	School of Geography, University of Leeds Post held: Lecturer
Dec 1998 – Aug 2000	School of Geography, University of Leeds Post held: Research Fellow
Oct 1991 - Oct 1995	Food and Agriculture Organisation of the United Nations, Rome, Italy Post held: Associate Officer in Climatology/Early Warning Systems
Oct 1990 - Jul 1991	Max Planck Institut für Aeronomie, Katlenburg-Lindau, Germany Post held: Research Assistant

3 PUBLICATIONS / PRESENTATIONS

3.1 PAPERS

1. Moltchanova, E., Lesiv, M., See, L., Mugford, J., Fritz, S. Optimizing crowdsourced land use and land cover data collection: A two-staged approach. *Land*, 11(7): 958, <https://doi.org/10.3390/land11070958>.
2. Salk, C., Moltchanova, E., See, L., Sturn, T., McCallum, I., Fritz, S. (2022): How many people need to classify the same image? A method for optimizing volunteer contributions in binary geographical classifications. *PLoS One*, 17(5): e0267114, <https://doi.org/10.1371/journal.pone.0267114>.
3. See, L., Laso Bayas, J.C., Lesiv, M., Schepaschenko, D., Danylo, O., McCallum, I., Duerauer, M., Georgieva, I., Domain, D., Fraisl, D., Hager, G., Karanam, S., Moorthy, I., Sturn, T., Subash, A., Fritz, S. (2022): Lessons learned in developing reference data sets with the contribution of citizens: the Geo-Wiki experience. *Environmental Research Letters*, 17, 065003, <https://doi.org/10.1088/1748-9326/ac6ad7>.
4. Lesiv, M., Schepaschenko, D., Buchhorn, M., See, L., et al. (2022): Global forest management data for 2015 at a 100 m resolution. *Scientific Data*, 9, 199, <https://doi.org/10.1038/s41597-022-01332-3>.
5. McCallum, I., Kyba, C., Laso Bayas, J., Moltchanova, E., Cooper, M., Cuaresma, J.C., Pachauri, S., See, L., Danylo, O., Moorthy, I., Lesiv, M., Baugh, K., Elvidge, C.D., Hofer, M., Fritz, S. (2022): Estimating global economic well-being with unlit settlements. *Nature Communications*, <https://doi.org/10.1038/s41467-022-30099-9>
6. Laso Bayas, J.C., See, L. et al. (2022): Drivers of tropical forest loss during the last decade. *Scientific Data* 9, 146, <https://doi.org/10.1038/s41597-022-01227-3>
7. Crooks, A., See, L. (2022): Leveraging street level imagery for urban planning. *Environment and Planning B*. <https://doi.org/10.1177/23998083221083364>
8. Fritz, S., Laso Bayas, J., See, L., Schepaschenko, D., Hofhansl, F., Jung, M., Dürauer, M., Georgieva, I., Danylo, O., Lesiv, M. and McCallum, I. (2022): A continental assessment of the drivers of tropical deforestation with a focus on protected areas. *Frontiers in Conservation Science*. <https://doi.org/10.3389/fcosc.2022.830248>
9. See, L., Georgieva, I., Duerauer, M., Kemper, T., Corbane, C., Maffenini, L., Gallego, J., Pesaresi, M., Sirbu, F., et al. (2022): A crowdsourced global data set for validating built-up surface layers. *Scientific Data*. <https://doi.org/10.1038/s41597-021-01105-4>
10. Fraisl, D., See, L., Sturn, T., McFeely, S., Bowser, A., Campbell, J., Moorthy, I., Danylo, O., McCallum, I., Fritz, S. (2022): Demonstrating the potential of Picture Pile as a citizen science tool for SDG monitoring. *Environmental Science and Policy*, 128, 81-93, <https://doi.org/10.1016/j.envsci.2021.10.034>
11. Ngo, T.A., Nguyen, G.T.H., Nong D. H., See, L. (2021): Simulating the spatial distribution of pollutant loads from pig farming using an agent-based modeling approach. *Environmental Science and Pollution Research*, <https://doi.org/10.1007/s11356-021-17112-2>.
12. Matsala, M., Bilous, A., Myroniuk, V., Holiaka, D., Schepaschenko, D., See, L., Kraxner, F. (2021): The return of nature to the Chernobyl Exclusion Zone: Increases in forest cover of 1.5 times since 1986 disaster. *Forests*, 12(8), 1024, <https://doi.org/10.3390/f12081024>
13. Hager, G., Gold, M., Wehn, U., Ajates, R., See, L., Woods, M., Tsiakos, V., Masó, J., Fraisl, D.,

- Moorthy, I., Domian, D., Fritz, S. (in press): Onto new horizons: Insights from the WeObserve project to strengthen the awareness, acceptability and sustainability of Citizen Observatories in Europe. *Journal of Science Communication (JCOM)*, 20(6), <https://doi.org/10.22323/2.20060201>
14. Wehn, U., Ajates, R., Fraisl, D., Gharesifard, M., Gold, M., Hager, G., Oliver, J., See, L., Shanley, L., Ferri, M., Howitt, C., Monego, M., Pfeiffer, E., Wood, C. (2021): Capturing and communicating impact of citizen science for policy: A storytelling approach. *Journal of Environmental Management*, 295, 113082, <https://doi.org/10.1016/j.jenvman.2021.113082>
 15. Schepaschenko, D., Moltchanova, E., Fedorov, S., Kositsyn, V., Karminov, V., Ontikov, P., Santoro, M., See, L., Shvidenko, A., Romanovskaya, A., Korotkov, V., Bartalev, S., Fritz, S., Shchepashchenko, M., Kraxner, F. (2021): Russian forest sequesters substantially more carbon than previously reported. *Scientific Reports*, 11, 12825, <https://doi.org/10.1038/s41598-021-92152-9>
 16. Mukhortova, L., Schepaschenko, D., Moltchanova, E., Shvidenko, A., Khabarov, N., See, L. (2021): Respiration of Russian soils: Climatic drivers and response to climate change. *The Total Science of the Environment*, 758, 147314, <https://doi.org/10.1016/j.scitotenv.2021.147314>
 17. Danylo, O., Pirker, J., Lemoine, G., Ceccherini, G., See, L., McCallum, I., Hadi, H., Kraxner, F., Achard, F., Fritz, S. (2021): A map of the extent and year of detection of oil palm plantations in Indonesia, Malaysia and Thailand. *Scientific Data*, 8, 96, <https://doi.org/10.1038/s41597-021-00867-1>
 18. Johnson, D., See, L., Oswald, S.M., Prokop, T., Krisztin, T. (2020): A cost-benefit analysis of implementing urban heat island adaptation measures in small and medium-sized cities in Austria. *Environment and Planning B*, 48(8), 2326-2345, <https://doi.org/10.1177/2399808320974689>
 19. Ferri, M., Wehn, U., See, L., Monego, M., Fritz, S. (2020): The value of citizen science for flood risk reduction: Cost-benefit analysis of a citizen observatory in the Brenta-Bacchiglione catchment. *Hydrology Earth System Sciences (HESS)*, 24, 5781–5798, <https://doi.org/10.5194/hess-24-5781-2020>
 20. Laso Bayas, J.C., See, L., Bartl, H., Sturn, T., Karner, M., Fraisl, D., Moorthy, I., Busch, M., van der Velde, M., Fritz, S. (2020): Crowdsourcing LUCAS: Citizens generating reference land cover and land use data with a mobile app. *Land*, 9(11), 446, <https://doi.org/10.3390/land9110446>
 21. Laso Bayas, J.C., Gardeazabal, A., Karner, M., Folberth, C., Vargas, L., Skalský, R., Balkovič, J., Subash, A., Saad, M., Delerce, S., Crespo Cuaresma, J., Hlouskova, J., Molina-Maturano, J., See, L., Fritz, S., Obersteiner, M., Govaerts, B. (2020): AgroTutor: A mobile phone application supporting sustainable agricultural intensification. *Sustainability*, 12(22), 9309, <https://doi.org/10.3390/su12229309>
 22. Liu, L., Olteanu-Raimond, A.-M., Jolivet, L., Bris, A. See, L. (2020): A data fusion-based framework to integrate multi-source VGI in an authoritative land use database. *International Journal of Digital Earth*, 14(4), 480-509, <https://doi.org/10.1080/17538947.2020.1842524>
 23. Myroniuk, V., Bilous, A., Khan, Y., Terentiev, A., Kravets, P., Kovalevskiy, S., See, L. (2020): Tracking rates of forest disturbance and associated carbon loss in areas of illegal amber mining in Ukraine using Landsat time series. *Remote Sensing*, 12(14), 2235, <https://doi.org/10.3390/rs12142235>
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 25. Fraisl, D., Campbell, J., See, L., Wehn, U., Wardlaw, J., Gold, M., Moorthy, I., Arias, R., Piera, J., Oliver, J.L., Masó, J., Penker, M., Fritz, S. (2020): Mapping citizen science contributions to the UN Sustainable Development Goals. *Sustainability Science*, 15, 1735-1751, <https://doi.org/10.1007/s11625-020-00833-7>
 26. Szantoi, Z., Geller, G., Tsendbazar, N.-E., See, L., Griffiths, P., Fritz, S., Gong, P., Herold, M., Mora, B., Obregon, A. (2020): Addressing the need for better land cover map products for policy support. *Environmental Science and Policy*, 112, 28-35, <https://doi.org/10.1016/j.envsci.2020.04.005>
 27. Campbell, J., Neuner, J., See, L., Fritz, S., Fraisl, D., Espey, J., Kim, A. (2020): The role of combining national official statistics with global monitoring to close the data gaps in the environmental SDGs.

- Statistical Journal of the IAOS*, 36(2), 443-453, <https://doi.org/10.3233/SJI-200648>
28. Olteanu-Raimond, A.-M., See, L., Schultz, M., Foody, G., Riffler, M., Gasber, T., Jolivet, L., le Bris, A., Meneroux, Y., Liu, L., Poupée, M., Gombert, M. (2020): Use of automated change detection and VGI sources for identifying and validating urban land use change. *Remote Sensing*, 12(7), 1186, <https://doi.org/10.3390/rs12071186>
 29. Oswald, S., Hollosi, B., Zuvella-Aloise, M., See, L., Guggenberger, S., Hafner W. (2020): Using climate modelling and improved land use classifications to support climate change adaptation in urban environments: a case study for the city of Klagenfurt, Austria. *Urban Climate*, 31, 100582, <https://doi.org/10.1016/j.uclim.2020.100582>
 30. Cai, M., Ren, C., Li, X., Shi, Y., See, L. (2020): Developing a rapid method for 3-dimensional urban morphology detection using open-source data. *Sustainable Cities and Society*, 53, 101962, <https://doi.org/10.1016/j.scs.2019.101962>
 31. Hirsch, C., Krisztin, T., See, L. (2020): Water resources as determinants for foreign direct investments in land - A gravity analysis of foreign land acquisitions. *Ecological Economics*, 170, 106516, <https://doi.org/10.1016/j.ecolecon.2019.106516>
 32. Masson, V., Petit, G., Heldens, W., Bocher, E., Bonhomme, M., Tornay, N., Bucher, B., Bursmeister, C., de Munck, C., Esch, T., Hidalgo, J., Kanani-Sühring, F., Kwok, Y.T., Lemonsu, A., Lévy, J.-P., Maronga, B., Pavlik, D., See, L., Schoetter, R., Votsis, A., Zeidler, J. (2020): City-descriptive input data for urban climate models: Model requirements, data sources and challenges. *Urban Climate*, 31, 100536, <https://doi.org/10.1016/j.uclim.2019.100536>
 33. Fritz, S., See, L., Carlson, T., Haklay, M., Oliver, J.L., Fraisl, D., Mondardini, R., Brocklehurst, M., Shanley, L.A., Schade, S., Wehn, U., Abrate, T., Anstee, J., Arnold, S., Billot, M., Campbell, J., Espey, J., Gold, M., Hager, G., He, S., et al. (2019): Citizen science and the Sustainable Development Goals. *Nature Sustainability*, 2, 922–930, <https://doi.org/10.1038/s41893-019-0390-3>
 34. Schepaschenko, D., Chave, J., Phillips, O.L., Lewis, S.L., Davies, S.J., Réjou-Méchain, M., Sist, P., Scipal, K., Perger, C., Herault, B., Labrière, N., Hofhansl, F., Affum-Baffoe, K., Aleinikov, A., Alonso, A., Amani, C., Araujo-Murakami, A., Armston, J., Arroyo, L., Ascarrunz, N., et al. (2019): The Forest Observation System, building a global reference dataset for remote sensing of forest biomass. *Scientific Data*, <https://doi.org/10.1038/s41597-019-0196-1>
 35. Hu, K., Guo, Y., Hochrainer-Stigler, S., Liu, W., See, L., Yang, X., Zhong, J., Fei, F., Chen, F., Zhang, Y., Zhao, Q., Chen, G., Chen, Q., Zhang, Y., Ye, T., Ma, L., Li, S., Qi, J. (2019): Evidence for urban-rural disparity in temperature-mortality relationships in Zhejiang Province, China. *Environmental Health Perspectives*. 127(3): 37001, <https://doi.org/10.1289/EHP3556>
 36. Ching, J., Aliaga, D., Mills, G., Masson, V., See, L., Neophytou, M., Middel, A., Baklanov, A., Ren, C., Ng, E., Fung, J., Wong, M., Huang, Y., Martilli, A., Brousse, O., Stewart, I., Zhang, X., Shehata, A., Miao, S., Wang, X. et al. (2019): Pathway using WUDAPT's Digital Synthetic City tool towards generating urban canopy parameters for multi-scale urban atmospheric modeling. *Urban Climate*, 28, 100459, <https://doi.org/10.1016/j.uclim.2019.100459>
 37. Schepaschenko, D., See, L., Lesiv, M., Bastin, J-F., Mollicone, D., Tsendbazar, N.-E., Bastin, L., McCallum, I., Laso Bayas, J.C., Baklanov, A., Perger, C., Dürauer, M., Fritz, S. (2019): Recent advances in forest observation with visual interpretation of very high-resolution imagery. *Surveys in Geophysics*, 40, 839-862, <https://doi.org/10.1007/s10712-019-09533-z>
 38. Fonte, C.C., Lopes, P., See, L., Bechtel, B. (2019): Using OpenStreetMap (OSM) to enhance the classification of local climate zones in the framework of WUDAPT. *Urban Climate*, 28, 100456, <https://doi.org/10.1016/j.uclim.2019.100456>
 39. See, L. 2019. A review of citizen science and crowdsourcing in applications of pluvial flooding. *Frontiers in Earth Science – Geohazards and Georisks*, <https://doi.org/10.3389/feart.2019.00044>
 40. Danylo, O., Bun, R., See, L., Charkovska, N. (2019): High-resolution spatial distribution of greenhouse gas emissions in the residential sector. *Mitigation and Adaptation Strategies for Global*

- Change*, 24, 941-967, <https://doi.org/10.1007/s11027-019-9846-z>
41. See, L., Fonte, C.C., Antoniou, V., Minghini, M. (2019): Volunteered geographic information: looking towards the next 10 years. *Journal of Geographical Systems*, 21(1), 1-3, <https://doi.org/10.1007/s10109-018-00291-x>
 42. Zheng, F., Tao, R., Maier, H., See, L., Savic, D., Zhang, T., Chen, Q., Assumpção, T.H., Yang, P., Bardia Heidari, B., Rieckermann, J., Minsker, B., Bi, W., Ximing Cai, X., Solomatine, D., Popescu, I. (2018): Crowdsourcing methods for data collection in geophysics: State of the art, issues, and future directions. *Reviews of Geophysics*, 56(4), 698-740, <https://doi.org/10.1029/2018RG000616>.
 43. Waldner, F., Schucknecht, A., Lesiv, M., Gallego, J., See, L., Pérez-Hoyos, A. d'Andrimont, R., Thomas de Maet, T., Laso Bayas, J.C., Fritz, S., Leo, O., Kerdiles, H., Díez, M., Van Tricht, K., Gilliams, S., Shelestov, A., Lavreniuk, M., Simões, M., Ferraz, R., Bellón, B., Bégué, A., Hazeu, G., Stonacek, V., Kolomaznik, J., Jan Misure, J., Verón, S.R., de Abelleira, D., Plotnikov, D., Mingyong, L., Singha, M., Patil, P., Zhang, M., Defourny, P. (2019): Conflation of expert and crowd reference data to validate global binary thematic maps. *Remote Sensing of Environment*, 221, 235-246, <https://doi.org/10.1016/j.rse.2018.10.039>
 44. Lesiv, M., Laso Bayas, J.C., See, L., Duerauer, M., Dahlia, D., Durando, N., Hazarika, R., Sahariah, P.K., Vakolyuk, M., Blyshchyk, V., Bilous, A., Perez-Hoyos, A., Gengler, S., Prestele, R., Bilous, S., Akhtar, I.H., Singha, S., Choudhury, S.B., Chetri, T., Malek, Z. et al. (2018): Estimating the global distribution of field size using crowdsourcing. *Global Change Biology*, 25(1), 174-186, <https://doi.org/10.1111/gcb.14492>
 45. Bechtel, B., Alexander, P.J., Beck, C., Böhner, J., Brousse, O., Ching, J., Demuzere, M., Fonte, C.C. Gál, T., Hidalgo, J., Hoffmann, P., Middel, A., Mills, G., Ren C., See, L., Sismanidis, P., Verdonck, M.-L., Xu, G. and Xu, Y. (2019): Generating WUDAPT Level 0 data - Current status of production and evaluation. *Urban Climate*, 27, 24–45, <https://doi.org/10.1016/j.uclim.2018.10.001>
 46. McCallum, I., See, L., Sturn, T., Salk, C., Perger, C., Dürauer, M., Karner, M., Moorthy, I., Domian, D., Schepaschenko, D., Fritz, S. (2018): Engaging citizens in environmental monitoring via gaming. *International Journal of Spatial Data Infrastructures Research*, 13, 15-23, <https://doi.org/10.2902/1725-0463.2018.13.art3>
 47. Lesiv, M., See, L., Laso Bayas, J.C., Sturn, T., Schepaschenko, D., Karner, M., Moorthy, I., McCallum, I., Fritz, S. (2018): Characterizing the spatial and temporal availability of very high resolution satellite imagery in Google Earth and Microsoft Bing Maps as a source of reference data. *Land*, 7(4), 118, <https://doi.org/10.3390/land7040118>
 48. Olteanu-Raimond, A.-M., Jolivet, L., Van Damme, M.-D., Royer, T., Fraval, L., See, L., Sturn, T., Karner, M., Moorthy, I., Fritz, S. (2018): An experimental framework for integrating citizen and community science into land cover, land use and land change detection processes in a national mapping agency. *Land*, 7(3), 103, <https://doi.org/10.3390/land7030103>
 49. Fritz, S., See, L., Laso Bayas, J.C., Waldner, F., Jacques, D., Becker-Reshef, I., Whitcraft, A., Baruth, B., Bonifacio, R., Crutchfield, J., Rembold, F., Rojas, O., Schucknecht, A., Van der Velde, M., Verdin, J., Wu, B., Yan, N., Gilliams, S., Mucher, S., Terault, R. Moorthy, I., McCallum, I. (2018): A comparison of global agricultural monitoring systems and current gaps. *Agricultural Systems*, 168, 258-272, <https://doi.org/10.1016/j.agsy.2018.05.010>
 50. Schepaschenko, D., Moltchanova, E., Shvidenko, A., Blyshchyk, V., Dmitriev, D., Martynenko, O., See, L., Kraxner, F. (2018): Improved estimates of biomass expansion factors for Russian forests. *Forests*, 9(6), 312, <https://doi.org/10.3390/f9060312>
 51. Waha, K., van Wijk, M.T., Fritz, S., See, L., Thornton, P.K., Wichern, J., Herrero, M. (2018): Agricultural diversification as an important strategy for achieving food security in Africa. *Global Change Biology*, 24(8), 3390-3400, <https://doi.org/10.1111/gcb.14158>
 52. Stehman, S., Fonte, C., Foody, G., See, L. (2018): Using volunteered geographic information (VGI) in design-based statistical inference for area estimation and accuracy assessment of land cover.

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 56. Lesiv, M., Shvidenko, A., Schepaschenko, D., See, L., Fritz, S. (2018): A spatial assessment of the forest carbon budget for Ukraine. *Mitigation and Adaptation Strategies for Global Change*, 24, 985-1006, <https://doi.org/10.1007/s11027-018-9795-y>.
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 58. Foody, G., See, L., Fritz, S., Moorthy, I., Perger, C., Schill, C., Boyd, D. (2018): Increasing the accuracy of crowdsourced information on land cover via a voting procedure weighted by information inferred from the contributed data. *International Journal of Geo-Information*, 7(3), 80, <https://doi.org/10.3390/ijgi7030080>
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51. See, L., Openshaw, S. (2001): Fuzzy geodemographic targeting. In: *Regional Science in Business*, Clarke, G. and Madden, M. (eds). Springer, Berlin. pp.269-282.
52. See, L. (2001): Book Review: Artificial Neural Networks in Hydrology. *Hydrological Sciences Journal*, v. 46, p. 325.

3.4 CONFERENCE/WORKSHOP PRESENTATIONS, PAPERS, POSTERS AND SEMINARS (*presenter)

1. *Kłopotek, G., Soja, B., Crocetti, L., Awadaljeed, M., Pan, Y., Rothacher, M., See, L., Weinacker, R., Sturn, T., McCallum, I., Navarro, V. Exploring crowdsourced GNSS observations for data fusion with the use of machine learning, 8th International Colloquium on Scientific and Fundamental Aspects of GNSS, Sofia, Bulgaria, 14-16 September, 2022.
2. *Ching, J., et al. Highlights of the WUDAPT Decade. 2022 IAUC Virtual Poster Conference, remote, 30 August–1 September 2022.
3. *Laso Bayas, J.C., See, L., Georgieva, I., Schepaschenko, D., Dürauer, M., Fritz, S. 2022. Drivers of forest loss on the past decade: A Geo-Wiki crowdsourcing campaign overview, ForestSAT, Berlin, 29 August to 2 September 2022.
4. *Lesiv, M., Schepaschenko, D., See, L. 2022. Potential of citizen science to support forest monitoring, ForestSAT, Berlin, 29 August to 2 September 2022.
5. *Schepaschenko, D., Lesiv, M., Buchhorn, M., Dürauer, M., Georgieva, I., See, L., McCallum, I., Fritz, S. 2022. Mapping global forest management intensity with the power of local experts and crowd, ForestSAT, Berlin, 29 August to 2 September 2022.
6. *See, L. Citizen science and the SDGs: Examples, opportunities and challenges. Sustainability Research and Innovation Congress (SRI2022), Pretoria, South Africa and remote, 20-24 June 2022.
7. *Crocetti, L., Soja, B., Kłopotek, G., Awadaljeed, M., Rothacher, M., See, L., Weinacker, R., Sturn, T., McCallum, I., Navarro, V. 2022. Machine learning algorithms for global modelling of Zenith Wet Delay based on GNSS measurements and meteorological data, 1st Workshop on Data Science for GNSS Remote Sensing, Potsdam, Germany, 13-15 June 2022.
8. Crocetti, L., Soja, B., Kłopotek, G., Awadaljeed, M., Rothacher, M., *See, L., Weinacker, R., Sturn, T., McCallum, I., Navarro, V. 2022. Machine learning based modelling of tropospheric parameters with GNSS enhanced by meteorological data, ESA Living Planet Symposium 2022, Bonn, Germany, 23-27 May 2022.
9. *See, L., Fraisl, D. Complementary use of citizen science and EO data for addressing SDG data gaps, ESA Living Planet Symposium 2022, Bonn, Germany, 23-27 May 2022.

10. *See, L. 2022. Citizen Science in the EO*GI Sector, EO4GEO Workshop, 17-18 May 2022.
11. *Kłopotek, G., Soja, B., Crocetti, L., Awadaljeed, M., Pan, Y., Rothacher, M., See, L., Weinacker, R., Sturn, T., McCallum, I., V. Navarro, V. 2022. CAMALIOT: Exploring crowdsourced GNSS observations at scale for atmospheric monitoring based on machine learning. GNSS Raw Measurements Task Force Meeting, 17 May 2022.
12. *See, L., Soja, B., Kłopotek, G., Awadaljeed, M., Crocetti, L., Pan, Y., Rothacher, M., Weinacker, R., Sturn, T., McCallum, I. 2022. The CAMALIOT project, FFG Informationsveranstaltung zu NAVISP, Vienna, Austria, 10 May 2022.
13. *See, L. 2022. The growing role of GEO in the urban nexus including citizen science. GEO Symposium 2022, online, 2-5 May 2022.
14. *Crocetti, L., Soja, B., Kłopotek, G., Awadaljeed, M., Rothacher, M., See, L., Weinacker, R., Sturn, T., McCallum, I., Navarro, V. 2022. Using machine learning algorithms and meteorological data for the prediction of tropospheric parameters in space and time, EGU, Vienna, Austria, 3-8 April 2022.
15. *Kłopotek, G., Soja, B., , Awadaljeed, M., Crocetti, L., Rothacher, M., See, L., Weinacker, R., Sturn, T., McCallum, I., Navarro, V. 2022. Total Electron Content Monitoring Complemented with Crowdsourced GNSS Observations, EGU, Vienna, Austria, 3-8 April 2022.
16. *Laso Bayas, J.C., Hofer, M., McCallum, I., Bodner, G., Maxim Lamare, Danylo, O., Maus, V., Luger, D., See, L., Fritz, S. 2022. Remote sensing detection of climate-smart practices: Enhancing farm resilience in Austria, EGU, Vienna, Austria, 3-8 April 2022.
17. *Sturn, T., See, L., Karanam, S., Subash, A., McCallum, I., Fritz, S. 2022. Extending rapid image classification with the Picture Pile Platform for citizen science, EGU, Vienna, Austria, 3-8 April 2022.
18. *Soja, B., Navarro, V., Kłopotek, G., Rothacher, M., See, L., Sturn, T., Weinacker, R., McCallum, I. 2021. Atmospheric monitoring with GNSS IoT data fusion based on machine learning, AGU, 13-17 December 2021, remote. Available at: Earth and Space Science Open Archive (ESSOAr).
19. *Navarro, V., Soja, B., Nugnes, M., Kłopotek, G., Tagliaferri, G., See, L., Falzarno, R., Halbheer, M., Ventura-Traveset, J. 2021. Data fusion and machine learning for innovative GNSS science use cases. ION GNSS+ 2021, 20-24 September 2021, remote.
20. *Skarlatidou, A., Fraisl, D., Wu, Y., See, L., Haklay, M. 2022. Extreme citizen science contributions to the Sustainable Development Goals: Challenges and opportunities for a human-centred design approach. In: Proceedings of Sense, Feel Design. Lecture Notes in Computer Science, Cham: Springer International Publishing, pp.20-35, 10.1007/978-3-030-98388-8_3.
21. *Fritz, S., Sturn, T., Karner, M., Karanam, S., See, L., Laso Bayas, J.C. and McCallum, I. 2021. Crowdsourcing in-situ data collection using gamification. International Geoscience and Remote Sensing Symposium (IGARSS), 12- 16 July, 2021, remote.
22. *Schepaschenko, D., Moltchanova, E., Fedorov, S., Kositsyn, V., Karminov, V., Ontikov, P., Santoro, M., See, L., Shvidenko, A., Romanovskaya, A., Korotkov, V., Bartalev, S., Fritz, S., Shchepashchenko, M., Kraxner, F. 2021. Russian forest plays more important role in carbon sequestration than previously reported, the XV World Forestry Congress, 24-28 May 2021, Coex, Seoul, Republic of Korea.
23. *Laso Bayas, J.C., See, L., Lesiv, M., Duerauer, M., Georgieva, I., Karner, M., Schepaschenko, D., Danylo, O., Bartl, H., Subash, A., Karanam, S., Sturn, T., McCallum, I. and Fritz, S. 2021. Experiences from recent Geo-Wiki citizen science campaigns in the creation and sharing of new reference data sets on land cover and land use. vEGU21, 19-30 April 2021, remote conference.
24. *Schepaschenko, D., Moltchanova, E., Fedorov, S., Kositsyn, V., Karminov, V., Ontikov, P., Santoro, M., See, L., Shvidenko, A., Romanovskaya, A., Korotkov, V., Bartalev, S., Fritz, S., Shchepashchenko, M., Kraxner, F. 2021. New estimate of growing stock volume and carbon sequestration of Russian forests based on national forest inventory and remote sensing data. vEGU21, 19-30 April 2020, remote conference.

25. *See, L. 2021. Citizen science tools for SDG monitoring: Geo-Wiki and Picture Pile. 52nd Session of the United Nations Statistical Commission, Better Data Better Lives Side Event, 15 Feb 2021, remote event.
26. *See, L. 2021. Picture Pile: Rapid image classification to support earth observation monitoring. Lessons from the LandSense project. ECSA Webinar, 3 Feb 2021.
27. *Molina Maturano, J., Laso Bayas, J.C., Hager, G., See, L., Fritz, S. 2020. Implementing ethical & responsible data management within a toolkit for scaling up of citizen science projects. International FAIR Convergence Symposium 2020, 27 Nov-4 Dec 2020, remote conference.
28. *Capellan, S., Ramirez, I., See, L., Subash, A., Moorthy, I., Fritz, S., Infante, O., Wirastama, L.A. 2020. Natura Alert: Monitoring biodiversity threats using citizen science. Knowledge for Change: Citizen Science SDG Conference, Berlin, Germany, 14-15 Oct 2020, remote conference.
29. *Moorthy, I., See, L., Banko, G. Capellan, S., Mrkajic, V., Olteanu-Raimond, A.-M., Schrammeijer, E.A., Schultz, M., Batič, M., Fritz, S. 2020. LandSense: Coupling citizen science and Earth observation data to promote environmental monitoring. Knowledge for Change: Citizen Science SDG Conference, Berlin, Germany, 14-15 Oct 2020, remote conference.
30. *Fritz, S., Sturn, T., Subash, A., Karanam, S., See, L., McCallum, I. 2020. The Crowd2Train Project: A new innovative way to rapidly label crop types using street level photography. ESA EO Φ-week, 28 Sep-2 Oct 2020, remote conference.
31. *Capellan, S., Ramirz, I., See, L., Subash, A., Moorthy, I., Fritz, S., Infante, O. and Wirastami, L.A. 2020. Natura Alert: Monitoring biodiversity threats using citizen science. The 3rd International ECSA Conference, Trieste, Italy, 6-10 Sep 2020, remote conference.
32. *Hager, G., Gold, M., Freytag, I., Domian, D., Masó, J., Moorthy, I., See, L., Tsiakos, V., Wehn, U., Woods, M., and Fritz, S. 2020. Onto new horizons: learnings from the WeObserve project to strengthen awareness, acceptability and sustainability of Citizen Observatories in Europe. The 3rd International ECSA Conference, Trieste, Italy, 36-10 Sep 2020, remote conference.
33. *Matheus, A., Moorthy, I., See, L., Batič, M., Fritz, S. 2020. Citizen Science and Personal Data Protection – The LandSense Approach. ECSA conference. The 3rd International ECSA Conference, Trieste, Italy, 6-10 Sep 2020, remote conference.
34. *See, L. 2020. Citizen science and the United Nations Sustainable Development Goals. The 3rd International ECSA Conference, Trieste, Italy, 6-10 2020, remote conference.
35. *Campbell, J., Neuner, J., Fraisl, D., See, L., Fritz, S., Espey, J., Kim, A. 2020. The role of combining national official statistics with global monitoring to close the data gaps in the environmental SDGs. 62nd ISI World Statistics Conference. Kuala Lumpur, 18-23 Aug 2020.
36. *Fonte, C.C., See, L., Laso Bayas, J.C., Lesiv, M., Fritz, S. 2020. Assessing the accuracy of land use land cover (LULC) maps using class proportions in the reference data. 24th International Society of Photogrammetry and Remote Sensing Congress. Nice, France, but held remotely due to COVID-19 from 31 August 31 to 2 September 2020.
37. *See, L. Citizen Science and the Sustainable Development Goals. Presented at the Citizen Science Association (CSA) Law and Policy Working Group webinar series. 28 May 2020.
38. *See, L. FotoQuest Go: A citizen science app for collecting in situ land cover and land use data. CO4EO event organized by WeObserve, 6 May 2020.
39. *Danylo, D., Hadi, Joshi, N., Zulkarnain, M.T., Ekadinata, A., Sturn, T., Mohamad, F., Goib, B., Yowargana, P., McCallum, I., Moorthy, I., See, L., Fritz, S., Kraxner, F. 2020. Building up local knowledge on restoration: lessons learnt from organizing a set of crowdsourcing campaigns. EGU, Vienna, 3-8 May 2020 – remote presentation 4 May 2020 due to COVID-19. <https://meetingorganizer.copernicus.org/EGU2020/EGU2020-19043.html>
40. *Fraisl, D., Campbell, J., See, L., Wehn, U., Wardlaw, J., Gold, M., Moorthy, I., Arias, R., Piera, J., Oliver, J.L., Maso, J., Penker, M., Fritz, S. 2020. The potential role of citizen science for addressing

- global challenges and achieving the UN Sustainable Development Goals. EGU, Vienna, 3-8 May 2020 – remote presentation 4 May 2020 due to COVID-19. <http://pure.iiasa.ac.at/id/eprint/16434/>
41. *Laso Bayas, J., C., See, L., Sturn, T., Karner, M., Fraisl, D., Moorthy, I., Subash, A., Georgieva, I., Hager, G., Lesiv, M., Hadi, H., Danylo, O., Karanam, S., Duerauer, M., Domian, D., Schepaschenko, D., McCallum, Fritz, S. 2020. Monitoring of land use change by citizens: The FotoQuest experience. EGU, Vienna, 3-8 May 2020 – remote presentation 4 May 2020 due to COVID-19. <https://meetingorganizer.copernicus.org/EGU2020/EGU2020-7870.html>
 42. *Ching, J., Aliaga, D., Mills, G., Masson, V., See, L. et al. 2020. The WUDAPT approach supporting multi-scale fit for purpose intra-urban atmospheric modeling and analyses applications. 15th Symposium of Urban Environment at the AMS Annual Meeting, Boston, 12-16 Jan 2020.
 43. *Johnson, J., See, L., Oswald, S.M., Hollosi, B., Zuvela- Aloise, M., Storch, A., Prokop, G., Schieder, W., Guggenberger, S. and Hafner, W. 2019. Economic Valuation of Adaptation Scenarios to Mitigate the Urban Heat Island Effect in Small and Medium-Sized Cities. Green Urbanism, Rome, 11-13 Dec 2019.
 44. *Danylo, O., Pirker, J., Lemoine, G., Ceccerini, G., See, L., Moorthy, I., Joshi, N., McCallum, I., Kraxner, F., Fritz, S. 2019. High-resolution oil palm detection across South-East Asia. IUFRO, 29 Sep to 5 Oct 2019, Curitiba, Brazil.
 45. Moorthy, I., Joshi, N., Zulkarnain, M.T., Ekadinata, A., Sturn, T., Mohamad, F., Goib, B., Yowargana, P., *Danylo, O., McCallum, I., Kraxner, F., See, L., Fritz, S. 2019. Validating maps of land cover and land degradation with citizen science and mobile gaming. IUFRO, 29 Sep to 5 Oct 2019, Curitiba, Brazil.
 46. *Moorthy, I., Sturn, T., Batič, M., See, L., Milčinski, G. and Fritz, S. 2019. Improving cloud detection in satellite imagery using a citizen science approach, 39th Annual EARSeI Symposium, Salzburg, Austria, 1-4 July 2019.
 47. Fritz, S., Sturn, T., Karner, M., *Moorthy, I., See, L., Laso Bayas, J.C., and Fraisl, D. 2019. FotoQuest Go: A citizen science approach to the collection of in-situ land cover and land use data for calibration and validation., 39th Annual EARSeI Symposium, Salzburg, Austria, 1-4 July 2019.
 48. *Guggenberger, S., Hafner, W., See, L., Oswald, S.M., Hollosi, B., Zuvela-Aloise, M., Storch, A., Prokop, G. and Schieder, W. 2019. Using urban climate modelling to support climate change adaptation in small- to medium-sized cities in Austria. 2nd International Conference ADAPTtoCLIMATE, Heraklion, Crete Island, Greece, 24-25 June 2019.
 49. *Fonte, C.C., Lesiv, M., See, L. and Fritz, S. 2019. A preliminary quality analysis of the climate change initiative land cover products for continental Portugal. ISPRS GeoSpatial Week, Enschede, Netherlands, 10-14 June 2019.
 50. *Lesiv, M., Tsendbazar, N., Herold, M., Buchhorn, M., Smets, B., Van De Kerchove, R., Pekel, J.-F., Duerauer, M., Maus, M., See, L. and Fritz, S. 2019. Spatial accuracy assessment of the recent land cover products. ESA Living Planet Symposium, Milan, 13-17 May 2019.
 51. *Moorthy, I., See, L., Batič, M., Matheus, A., Milčinski, G., and Fritz, S. 2019. The LandSense Engagement Platform: Connecting citizens with earth observation data for land use and land cover monitoring. ESA Living Planet Symposium, Milan, 13-17 May 2019.
 52. *Laso Bayas, J. et al. 2019. AgroTutor: Promoting agricultural sustainable intensification and crowdsourcing plot information. ESA Living Planet Symposium, Milan May 2019.
 53. *Maus, V., See, L., Fritz, S., Perger, C., Laso Bayas, J.C. 2019. Street View images to improve crop classification using satellite image time series. ESA Living Planet Symposium, Milan May 2019.
 54. *See, L., Novel Crowdsourcing Tools for In Situ Data Collection relevant to Agricultural EO Applications. ESA Living Planet Symposium, Milan, 13-17 May 2019.
 55. *See, L., Zuvela-Aloise, M., Hollosi, B., Oswald, S.M., Storch, A., Prokop, G., Schieder, W., Guggenberger, S. and Hafner, W. 2019. Investigating the urban heat island effect in small- to medium-sized cities in Austria, Klimatag 2019, Vienna, 25-26 April 2019.

56. Moorthy, I., Joshi, N., See, L. and *Fritz, S. 2019. Crowdsourcing and participatory approaches for monitoring land use and land cover in Indonesia. GLP Meeting, Bern, 24-26 April 2019.
57. *Kraxner, F. et al. 2019. Mapping Sustainable BECCS Potentials – A new methodology applied to the US. EGU, Vienna, 7-12 April 2019.
58. *Oswald, S.M., Hollosi, B., Zuvella-Aloise, M., See, L., Storch, A., Prokop, G., Schieder, W., Guggenberger, S. and Hafner, W. 2019. Using Urban Climate Modelling to Support Climate Change Adaptation in Small- to Medium-sized Cities in Austria. EGU, Vienna, 7-12 April 2019.
59. *See, L., Perger, C., Dresel, C., Saad, M., Subash, A., Mora, B., Pascaud, M., Ligeard, F., Joshi, N., Fritz, S. 2019. LACO-Wiki Mobile: An Open Source Application for In situ Data Collection and Land Cover Validation. EGU, Vienna, 7-12 April 2019.
60. *Oswald, S., Hollosi, B., Zuvella-Aloise, M., See, L., Prokop, G., Schieder, W., Storch, A., Guggenberger, S. and Hafner, W. 2019. Stadtklima-Modellierung zur Anpassung von klein- bis mittelgroßen Städten in Österreich an den Klimawandel. 18.-22. März 2019 in Garmisch-Partenkirchen, Germany, 18-22 March 2019.
61. Verbeiren, B., Dagnachew Seyoum, S., Lubbad, I., Xin, T., ten Veldhuis, M.-C., Onof, C., Wang, L.-P., Ochoa-Rodriguez, S., Veeckman, C., Boonen, M., *See, L., Nalpas, D., O'Brien, B., Johnston, A. and Willems, P. 2018. FloodCitiSense: An early warning service for urban pluvial flooding. 2nd International Conference on Citizen Observatories for Natural Hazards and Water Management, Venice, Italy, 27-30 Nov 2018.
62. *Laso Bayas J.C., Moorthy, I., Sturn, T., Karner, M., Perger, C., Fraisl, D., Domian, D., Gardezabal, A., Vargas, L., Capellan, S., Danylo, O., Lesiv, M., Duraüer, M., Dresel, C., Hager, G., Saad, M. Subash, A., Smith, B., Joshi, N., Schepaschenko, D., McCallum, I., See, L. and Fritz, S. 2018. Citizen scientists monitoring the environment: The latest apps from IIASA. 2nd International Conference on Citizen Observatories for Natural Hazards and Water Management, Venice, Italy, 27-30 Nov 2018.
63. *Moorthy, I., See, L., Batič, M., Matheus, A., Fritz, S. 2018. The LandSense Engagement Platform: Connecting citizens with earth observation data to promote environmental monitoring. ESA Open Science Conference, Frascati, 12-16 November 2018.
64. Fritz, S., *See, L., Perger, C., Dresel, C., Mora, B., Pascaud, M., Ligeard, F., Joshi, N. 2018. In situ data collection and land cover validation with LACO-Wiki mobile. ESA Open Science Conference, Frascati, 12-16 November 2018.
65. *Maus, V., See, L., Fritz, S., De Castro Victoria, D., Perger, C. and Laso Bayas, J.C. 2018. Improving the availability of crop information using Google Street View. ESA Open Science Conference, Frascati, 12-16 November 2018.
66. Danylo, O., Moorthy, I., Sturn, T., *See, L., Laso Bayas, J.-C., Domian, D., Fraisl, D., Giovando, C., Girardot, B., Kapur, R., Matthieu, P.-P., Fritz, S. 2018. The Picture Pile tool for rapid image assessment: A demonstration using Hurricane Matthew. ISPRS Technical Commission IV Symposium, Delft, 1-5 October, 2018. <https://www.isprs-ann-photogramm-remote-sens-spatial-inf-sci.net/IV-4/27/2018/>
67. *Fonte, C.C., Minghini, M., Antoniou, V., Patriarca, J. and See, L. 2018. Classification of building function using available sources of VGI. ISPRS Technical Commission IV Symposium, Delft, 1-5 October, 2018. <https://www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XLII-4/209/2018/>
68. *Verbeiren, B., Dagnachew Seyoum, S., Lubbad, I., Xin, T., ten Veldhuis, M.-C., Onof, C., Wang, L.-P., Ochoa-Rodriguez, S., Veeckman, C., Boonen, M., See, L., Nalpas, D., O'Brien, B., Johnston, A. and Willems, P. 2018. FloodCitiSense: Early Warning Service For Urban Pluvial Floods For And By Citizens and City Authorities, 11th International Conference on Urban Drainage Modelling, Palermo, Italy, 23-26 Sep 2018.

69. *Schepaschenko, D., Fritz, S., Lesiv, M., See, L. and Duerauer, M. 2018. Harnessing the power of volunteers and local experts to collect and validate spatial information: Relevance to forestry. IBFRA18, Laxenburg, Austria, 17-20 Sep 2018.
70. *Ching, J., Mills, G., See, L., Bonhomme, M., Feddema, J., Ferreira, L.S., Masson, V., Middel, A., Neophytou, M., Ren, C., Wong, M. 2018. Characterizing and generating WUDAPT Level 1 UCP data. ICUC10, New York, 8-10 Aug 2018.
71. *Masson, V., Bonhomme, M., Hidalgo, J., Tornay, N., Faraut, S., Schoetter, R., See, L., Duarte, D., Ferreira, L.S., Ching, J. and Mills, G. 2018. Using architectural archetypes and crowdsourcing to collect more detailed information for WUDAPT. ICUC10, New York, 8-10 Aug 2018.
72. *Kraxner, F. et al. 2018. A combined restoration and certification strategy for sustainable bioenergy. Biomass and Bioenergy Conference (BBC BRAZIL 2018), Sorocaba, Brazil, 10-12 April 2018.
73. *Wannemacher, K., Birli, B., Banko, G., Moorthy, I., See, L. and Fritz, S. 2018. Using citizen science to help monitor urban landscape changes and drive improvements. GI-Forum, Salzburg, 3-6 July 2018.
74. *Lesiv, M., Fritz, S., Laso Bayas, J.C., Duerauer, M., Domian, D., See, L., McCallum, I., Danylo, O., Perger, C., Karner, M., Schepaschenko, D., Moorthy, I. and Sturn, T. 2018. Global field sizes dataset for ecosystems modeling. EGU, Vienna, 8-13 Apr 2018.
75. Moorthy, I., Fritz, S., *See, L., When, U., Hemment, D., Masó Pau, J., Tsertou, A. Vohland, K., Ferri, M., McCallum, I., Domian, D., Hager, G., Perger, C. 2018. WeObserve: An Ecosystem of Citizen Observatories for Environmental Monitoring. EGU, Vienna, 8-13 Apr 2018.
76. Moorthy, I., Sturn, T., Fraisl, D., Karner, M., Laso Bayas, J.C., See, L., McCallum, I. and *Fritz, S. 2018. FotoQuest Go: A citizen science tool for in-situ land use and land cover monitoring. EGU, Vienna, 8-13 Apr 2018.
77. *Tian, X., ten Veldhuis, M.C., See, L., van de Giesen, N., Wang, L.-P., Seyoum, S.D., Lubbad, I. and Verbeiren, B. 2018. Crowd-sourced data: how valuable and reliable are they for real-time urban flood monitoring and forecasting? EGU, Vienna, 8-13 Apr 2018.
78. *Schultz, M., Fonte, C.C., Patriarca, J., Minghini, M., Antoniou, A., Olteanu-Raimond, A.M., Skopeliti, A., See, L., Fritz, S. and Zipf, A. 2017. Generating land use products from OpenStreetMap: A comparison of two approaches. International Land Use Symposium (ILUS) 2017, Dresden, Germany, 1-3 Nov 2017.
79. Moorthy, I., See, L., Fritz, S., McCallum, I., Perger, C., Duerauer, M., Dresel, C., Sturn, T., Karner, M., Schepaschenko, D., Lesiv, M., *Danylo, O., Laso Bayas, J.C., Salk, C., Maus, V., Fraisl, D., Domian, D., Mathieu, P.-P. 2017. Crowd-driven tools for the calibration and validation of Earth Observation products. EO Open Science, ESA, Frascati, 25-28 Sep 2017.
80. *Danylo, O., Sturn, T., Giovando, C., Moorthy, I., Fritz, I., See, L., Kapur, R., Girardot, B., Ajmar, A., Tonolo, F.G., Reinicke, T., Fraisl, D. and Mathieu, P.-P. 2017. Picture Pile: A citizen science tool for rapid post-disaster damage assessment using satellite imagery. EO Open Science, ESA, Frascati, 25-28 Sep 2017.
81. Aleksandrov, M., *Batič, M., Milčinski, G., *See, L., Perger, C., Moorthy, I., Fritz, S. 2017. Crowdsourcing EO datasets to improve cloud detection algorithms and land cover. EO Open Science, ESA, Frascati, 25-28 Sep 2017.
82. *Schepaschenko, D., Fritz, S., See, L., Perger, C., Dürauer, M., Sturn, T., Lesiv, M., McCallum, I., Laso Bayas, J.C., Karner, M., Kraxner, F. 2017. Harnessing the power of volunteers to collect and validate spatial information using Geo-Wiki: Relevance to forestry. IUFRO Conference, University of Freiburg, 19-22 Sep 2017.
83. *Yowargana, P., Kraxner, F., Fritz, S., See, L., et al. 2017. Towards an integrated assessment for landscape approach: combining remote sensing, crowdsourcing big data and multi-objective modelling. IUFRO Conference, University of Freiburg, 19-22 Sep 2017.

84. *Kottusch, C., Puteri, J., Yowargana, P., See, L., Fuss, S., Dewi, S., Mosnier, A., Ramos, F., Câmara, G., Samadhi, N., Warta, Z., Chatterton, P. and Kraxner, F. 2017. RESTORE+: A New Methodology for Addressing Landscape Restoration on Degraded Land (in Indonesia and Brazil). Tropentag Conference, Bonn, Germany, 20-22 Sep 2017.
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296. Khan, S. and *See, L.M. Comparing M5 Model Trees and Neural Networks for River Level Forecasting, American Geophysical Meeting, San Francisco USA, 5-9 Dec 2005.
297. Newson, A. and *See, L.M. Combining Neural Networks with Existing Methods to Estimate 1 in 100-Year Flood Event Magnitudes, American Geophysical Meeting, San Francisco USA, 5-9 Dec 2005.
298. *Heppenstall, A.J. and See, L.M. Comparing agent-based and time series approaches to modelling petrol prices, 14th European Colloquium on Theoretical and Quantitative Geography, Lisbon, Portugal, 9-12 Sep 2005.
299. *See, L.M. and Fritz, S. A user-defined fuzzy logic approach to comparing global land cover products, 14th European Colloquium on Theoretical and Quantitative Geography, Lisbon, Portugal, 9-12 Sep 2005.
300. Dawson, C.W., Abrahart, R.J., Shamseldin, A.Y., Wilby, R.L. and *See, L.M. Neural network modelling of the 20-year flood event for 850 catchments across the UK. International Joint Conference on Neural Networks, Montreal, 31 Jul-4 Aug 2005.
301. Dawson, C.W., *See, L.M., Abrahart, R.J., Wilby, R.L., Shamseldin, A.Y., Anctil, F., Belbachir, A.N., Bowden, G., Dandy, G., Lauzon, N., Maier, H. and Mason, G. A comparative study of artificial neural network techniques for river stage forecasting. International Joint Conference on Neural Networks, Montreal, 31 Jul-4 Aug 2005.
302. Shamseldin, A.Y., Abrahart, R.J. and *See, L.M. Neural network river discharge forecasters: An empirical investigation of hidden unit processing functions based on two different catchments. International Joint Conference on Neural Networks, Montreal, 31 Jul-4 Aug 2005.
303. *See, L.M. Learning and teaching resources for the UK censuses. MIMAS Open Forum 2005, 29 June 2005.

304. *Abrahart, R.J., See, L.M. and Dawson, C.W. Hydrological modelling: the properties of 'robustness' and 'graceful degradation', EGU, Vienna, Austria, 24-29 Apr 2005.
305. Dawson, C.W., Abrahart, R.J., Shamseldin, A.Y., Wilby, R.L. and *See, L.M. Neural network solutions to flood estimation at ungauged sites, EGU, Vienna, Austria, 24-29 Apr 2005.
306. *See, L.M. [Invited presentation], Shamseldin, A.Y. and Abrahart, R.J. Neural network river flow forecasting: the role of hidden neurons in a regulated catchment with arterial drainage modifications, EGU, Vienna, Austria, 24-29 Apr 2005.
307. *See, L. A fuzzy approach to map comparison. OS Workshop on Fuzziness and Uncertainty, 30-31 Mar 2005.
308. *Arrell, K., *Gould, M. and See, L. Online learning: Reflecting on experiences. Learning and Teaching Conference, University of Leeds, 17 Dec 2004.
309. *See, L. Neural network flood forecasting: Technology transfer and dissemination. International Conference on Security and Sustainability in Water Resources (SEEP 2004), Kathmandu, Nepal, 6-9 Sep 2004.
310. *See, L. Experiences of open distance and online learning in geography. International Conference on Education and Information Systems: Technologies and Applications (EISTA 2004), Orlando, Florida, 21-25 July 2004.
311. *See, L. E-learning or less learning? Reflections from two contrasting approaches. IADIS e-Society 2004. Avila, Spain, 16-19 Jul 2004.
312. Cannas, B., *See, L., Montisci, A., Fanni, A. and Sechi, G.M. Comparing artificial neural networks and support vector machines for modelling rainfall-runoff. The 6th International Conference on Hydroinformatics 2004, Singapore, 21-24 June 2004.
313. *Fritz, S. and See, L. Improving quality and minimising uncertainty of land cover maps using fuzzy logic. GISRUK 2004, University of East Anglia, Norwich, 28-30 Apr 2004.
314. *See, L. MSc in GIS: Project Profile. UKeU Developer's Forum, Coventry, 24-25 Nov 2003.
315. *See, L., Gould, M., Carter, J., Durham, H., Rees, P., Dorling, D. Developing the CHCC into a Major Learning and Teaching Resource: Progress on the Census Area Statistics. GISRUK 2002, 3-5 April, 2002.
316. *Carter, J., *Brown, M., * See, L. and *Russell, L. Applications workshop on the CHCC Learning and Teaching Resources. Networked Learning Conference, Sheffield, 27 Mar 2002.
317. Cockcroft, A., Clarke, G. and *See, L. Modelling flows of Crime. GISRUK'2001. University of Glamorgan, Cardiff. 18-20 Apr 2001.
318. Kneale, P.E., *See, L. and Smith, A. Towards Defining Evaluation Measures for Neural Network Forecasting Models, GeoComputation 2001, 24-26 Sep 2001, Brisbane.
319. *Kneale, P.E., See, L. and Smith, A. Developing Evaluation Measures for Neural Network Operational Forecasting, European Geophysical Society (EGS), 26-30 March 2001, Nice.
320. *Kneale, P.E., See, L., Cameron, D., Kerr, P. and Merrix, R. Using a prototype neural net forecasting model for flood predictions on the Rivers Tyne and Wear. BHS Symposium, 6-8 September 2000, Newcastle.
321. *Kneale, P.E., See, L. and *Kerr, P. Developing a prototype neural net flood forecasting model for use by the Environment Agency. MAFF Symposium, July 2000.
322. *Abrahart, R.J. and See, L. Using data mining to reduce computational overheads and produce a more balanced distribution of hydrological events within the training data. European Geophysical Society (EGS), 25-29 April 2000, Nice.
323. *Kneale, P.E., See, L. and Kerr, P. Applying a neural net forecasting model to flood forecasting by the UK Environment Agency. European Geophysical Society (EGS), 25-29 April 2000, Nice.
324. *Fritz, S., See, L. and Carver, S. New GIS approaches to wild land mapping for Europe. Conference on Wilderness Science in a Time of Change, June 1999, Montana, US.

325. *Abrahart, R.J. and See, L. Fusing multi-model hydrological data. The International Joint Conference on Neural Networks (IJCNN), 10-16 July 1999, Washington DC, USA.
326. *Abrahart, R.J., See, L. and Kneale, P. Applying Saliency Analysis to Neural Network Rainfall-Runoff Modelling. The Fourth International Conference on GeoComputation, 25-28 July 1999, Fredericksburg VA, USA.
327. *Fritz, S., See, L. and Carver, S. A Fuzzy Modelling Approach to Wild Land Mapping in Scotland. The Fourth International Conference on GeoComputation, 25-28 July 1999, Fredericksburg VA, USA.
328. *See, L. and Abrahart, R.J. Multi-Model Data Fusion for Hydrological Forecasting. The Fourth International Conference on GeoComputation, 25-28 July 1999, Fredericksburg VA, USA.
329. *See, L. and Abrahart, R.J. An integrated neuro-fuzzy-statistical approach to hydrological modelling. The Third International Conference on GeoComputation, 17-19 September 1998, Bristol, UK.
330. *See, L., Abrahart, R.J. and Openshaw, S. An integrated neuro-fuzzy-statistical approach to hydrological modelling. The Third International Conference on GeoComputation, 17-19 September 1998, Bristol, UK.
331. *See, L. and Openshaw, S. Using soft computing techniques to enhance flood forecasting on the River Ouse. Hydroinformatics'98, 24-26 August 1998, Copenhagen, Denmark.
332. *See, L., Corne, S., Dougherty, M. and Openshaw, S. Some initial experiments with neural network models of flood forecasting on the River Ouse. The Second International Conference on GeoComputation, 26-29 August 1997, University of Otago, New Zealand.
333. *See, L. and Openshaw, S. An introduction to the fuzzy logic modelling of spatial interaction. The Joint European Conference and Exhibition on Geographical Information, 16-18 April 1997, Vienna, Austria, IOS Press, 809-818.
334. *See, L. and Openshaw, S. Some empirical experiments in building fuzzy models of spatial data. GISRUK '97, 9-11 April 1997, Leeds, UK.
335. Corne, S., Murray, T., Openshaw, S., *See, L. and Turton, I. Using artificial intelligence techniques to model sub-glacial water systems. The First International Conference on GeoComputation, 17-19 September 1996, Leeds, UK.

3.5 CONFERENCE SESSIONS AND WORKSHOPS ORGANISED/PROGRAMME COMMITTEE MEMBER

1. Schepaschenko, D., See, L., Lesiv, M., Nelson, P.V. 2022. Citizen and community science to support forest monitoring, ForestSAT, Berlin, 29 August to 2 September 2022.
2. Seetha Ram, K., See, L., Tang, T., Wibowo, D.C., Setiawati, S. 2021 ADBI-IIASA Conference on Water, Sanitation and Hygiene (WASH) Technologies and Governance in Urban Development, remote, 28-29 Oct 2021.
3. See, L., Mazzoleni, M., Ceola, S., Buytaert, W. and Assumpção, T.H. 2019. HS3.3 Innovative sensing techniques for water monitoring, modelling, and management: Satellite, gauges, and citizens. EGU, Vienna, 7-12 April 2019.
4. Elshorbagy A., See, L., Ceola, S., Mazzoleni, M. and Assumpção, T.H. 2018. HS3.3 Innovative sensing techniques for water monitoring, modelling, and management: Satellite, gauges, and citizens. EGU, Vienna, 8-13 April 2018.
5. Solomatine, D., El Serafy, G., Elshorbagy A., Dogulu, N., Mazzoleni, M. and See, L. 2018. HS3.1 Hydroinformatics: computational intelligence, systems analysis, optimisation, data science and data-driven modelling of social-hydrologic systems. EGU, Vienna, 23-28 April 2017.
6. Yamagata, Y., Sharifi, A., See, L., Feddema, J. and Surveyer, A. 2016. GCP-WUDAPT Workshop on Global Urban Carbon Mapping: For contribution to Future Earth Knowledge Action Networks, Thun, Switzerland, 29 Jun to 1 July 2016.
7. Mills, G., Ching, J., See, L., Bechtel, B., Feddema, J., Stewart, I. and Alexander, P. 2015. Second WUDAPT Workshop held at ICUC9, Toulouse, France, 22 July 2015.

8. Jokar Arsanjani, J., Painho, M., Estima, J., Fonte, C. and See, L. Assessing the fitness of citizen observatories for land cover / land use mapping and validation purposes. AGILE Workshop, Lisbon, 9 June 2015.
9. Mills, G., Ching, J., See, L. First WUDAPT (World Urban Databases and Access Portal Tools) Workshop. University College Dublin (UCD), Dublin, Ireland, 7-9 July 2014.
10. Fritz, S. and See, L. 2011. Workshop on Characterizing and Validating Global Agricultural Land Cover, IIASA, Vienna, Austria, 13-15 June 2011.
11. Malleson, N., See, L.M. and Heppenstall, A.J. Enhancing Complex Social Simulations with Automata Systems, RGS-IGB Annual Conference in 2008 to 2010.
12. Solomatine, D., Abrahart, R.J., See, L.M. and Toth, E. Session Title: Hydroinformatics, European Geophysical Union (EGU) meeting, Vienna, 2005 to 2012.
13. See, L.M. and Heppenstall, A.J. GIS and Visualisation for Communication and Analysis, RGS-IGB Annual Conference in 2006.
14. Heppenstall, A.J., See, L.M., Evans, A.J. and Harris, R. Social Simulation, RGS-IGB Annual Conference in 2006.
15. Jain, A., See, L.M, Ormsbee, L.E., and Teeagavarapu, R. Soft Computing Tools in Hydrology, American Geophysical Union (AGU) meeting, San Francisco, 5-9 December 2005.

3.6 CORRESPONDENCE/COMMENTS/E-LETTERS

1. Fritz, S., Danylo, O., Maus, V., See, L., Hofhansl, F., McCallum, I., Obersteiner, M. 2019. Independent confirmation of Brazil's rapidly rising deforestation in 2019. *Science E-letter* Re: "Brazilian president attacks deforestation data", v.365(6452), pp.419.
<https://science.sciencemag.org/content/365/6452/419/tab-e-letters>
2. Schepaschenko, D., Fritz, S., See, L., Laso Bayas, J.C., Lesiv, M., Kraxner, F., Obersteiner, M. (2017): Comment on "The extent of forest in dryland biomes". *Science*, 358(6362), eaao0166, <https://doi.org/10.1126/science.aao0166>
3. Fritz, S., Schepaschenko, D., See, L. (2016): Limit uncertainties in land emissions. *Nature*, 534, 621, <https://doi.org/10.1038/534621e>
4. See, L., Mills, G. and Ching, J. 2015. Climate modelling: Community initiative tackles urban heat. *Nature*, 526, 43. DOI: doi:10.1038/526043b.
5. See, L., Fritz, S. and McCallum, I. 2014. Beyond sharing Earth observations. *Nature*, 9 Oct 2014.
6. Van der Velde, M., See, L. and Fritz, S. 2012. Conservation: Citizens add to satellite forest maps. *Nature*, 490, 342, 18 Oct 2012.
7. Van der Velde, M., See, L. and Fritz, S. 2012. Soil remedies for small-scale farming. *Nature*, 484, 318, 19 Apr 2012.

3.7 BLOG POSTS

1. See, L. and Moorthy, I. 2018. Monitoring urban greenspace with mobile phones. <https://blog.iiasa.ac.at/2018/03/21/the-landsense-citizen-observatory-monitoring-urban-greenspace-with-mobile-phones/>
2. See, L. 2017. Bringing satellite data down to Earth. <https://blog.iiasa.ac.at/2017/06/12/bringing-satellite-data-down-to-earth/>
3. See, L. 2017. What will it take to trust scientific data from citizens? <https://blog.iiasa.ac.at/2017/02/21/what-will-it-take-to-trust-scientific-data-from-citizens/>
4. See L. 2015. Beating the heat with more data on urban form and function. <https://blog.iiasa.ac.at/2015/10/01/beating-the-heat-with-more-data-on-urban-form-and-function/>
5. See, L., 2013. How games can help science: Introducing Cropland Capture

3.7 DATA SETS

1. Laso Bayas, J., See, L., Bartl, H., Sturn, T., Karner, M., Fraisl, D., Moorthy, I., Busch, M., et al. 2021. Crowdsourcing LUCAS: Citizens Generating Reference Land Cover and Land Use Data with a Mobile App. Available from: <https://dare.iiasa.ac.at/120/>.
2. Storch, A., Schieder, W., Hollosi, B., Žuvela-Aloise, M., Prokop, G., Guggenberger, S., See, L. 2020. Urban Heat Island Hazard and Risk Indices for Austria. Available from: <http://dare.iiasa.ac.at/86/>. doi: 10.22022/esm/05-2020.86.
3. Olteanu-Raimond, A.-M., Marcuzzi, J., Van Damme, M.-D., Sturn, T., Gombert, M., Jolivet, L., See, L., Royer, T. 2020. Crowd and community sourcing to update authoritative LULC data in urban areas. doi: 10.5281/zenodo.3691827.
4. You, L., U. Wood-Sichra, S. Fritz, Z. Guo, L. See, and J. Koo. 2014. Spatial Production Allocation Model (SPAM) 2005 Beta Version. [date]. Available from <http://mapspam.info>.

3.9 REPORTS

1. Cardoso, A.C., Tsiamis, K., Gervasini, E., Schade, S., Taucer, F., Adriaens, T., Copas, K., Flevaris, S., Galiay, P., Jennings, E., Josefsson, M., Claramunt López, B., Magan, J., Marchante, E., Montani, E., Roy, H., von Schomberg, R. See, L. and Mafalda Quintas, M. (2017): Citizen science and open data: a model for invasive alien species in Europe. Research Ideas and Outcomes, 3: e14811, <https://doi.org/10.3897/rio.3.e14811>
2. Fritz, S. and See, L. Characterizing and Validating Global Land Cover Workshop Report. IIASA 13-15 June 2011.
3. McDonald, A. and See, L.M. 2010. A Review of Artificial Neural Networks. Environment Agency, UK.
4. McDonald, A., See, L. and Boden, P. 2008. Hidden & Transient Populations: An analysis for the South West Water Supply Area. School of Geography, University of Leeds.
5. McDonald, A., See, L. and Boden, P. 2008. Hidden & Transient Populations: An analysis for the Essex and Suffolk Water Supply Area. School of Geography, University of Leeds.
6. McDonald, A., See, L. and Boden, P. 2008. Hidden & Transient Populations: An analysis for the Severn Trent Water Supply Area. School of Geography, University of Leeds.
7. McDonald, A., See, L. and Boden, P. 2008. Hidden & Transient Populations: An analysis for the Dwr Cymru Welsh Water Supply Area. School of Geography, University of Leeds.
8. McDonald, A., See, L. and Boden, P. 2007. Hidden & Transient Populations: An analysis for the Yorkshire Water Supply Area. School of Geography, University of Leeds.
9. McDonald, A., See, L. and Boden, P. 2007. Hidden & Transient Populations: An analysis for the Three Valley Waters Supply Area. School of Geography, University of Leeds.
10. McDonald, A., See, L. and Rees, P.H. 2005. Estimation of hidden and transient populations for Thames Water: Final Report, School of Geography, University of Leeds.
11. Shepherd, P., See, L., Kongmuang, C. and Clarke, G. 2004. An Analysis of Crime and Disorder in Leeds, 2000/01 to 2003/04, School of Geography, University of Leeds.
12. See, L., Clarke, G.P. and Evans, A. 2001. Application of the national police funding formula to the internal allocation of police constables to the operational divisions of Derbyshire: Final Report, School of Geography, University of Leeds.
13. See, L. 2001. Estimation of sub-force level populations for 1998: Final Report, School of Geography, University of Leeds.
14. Clarke, G., See, L. and Alvanides, S. 2000. Identifying Families of Basic Command Units (BCUs) and Crime Disorder Reduction Partnerships (CDRPs): Final Report.

15. Kneale, P.E., See, L. and Evans, A. 1999. Developing a Neural Network for Flood Forecasting in the Northumbria Area of the North East Region, Environment Agency: Final Report.
16. Openshaw, S., Kneale, P., Corne, S. and See, L. 1998. The feasibility of artificial neural networks for flood forecasting. MAFF Project OCS967P Final Report. Leeds, School of Geography, University of Leeds.

3.10 WORKING PAPERS

1. van Dijk, M., Moorthy, I., Nguyen, B., See, L. & Fritz, S. Tracking poverty using satellite imagery and big data. IIASA Working Paper. Laxenburg, Austria: WP-19-014. <http://pure.iiasa.ac.at/id/eprint/16240/>
2. Lesiv, M., See, L., Mora, B., Pietsch, S., Fritz, S., Bun, H., Sendabo, S., Kibuchi, S. et al. (2019). *Accuracy Assessment of the ESA CCI 20M Land Cover Map: Kenya, Gabon, Ivory Coast and South Africa*. IIASA Working Paper. Laxenburg, Austria: WP-19-009. <http://pure.iiasa.ac.at/id/eprint/16107/>
3. Keating, A., Campbell, K., Mechler, R., Michel-Kerjan, E., Mochizuki, J., Kunreuther, H., Bayer, J., Hanger, S., McCallum, I., See, L., Williges, K., Atreya, A., Botzen, W., Collier, B., Czajkowski, J., Hochrainer, S. and Egan, C. 2014. *Operationalizing Resilience Against Natural Disaster Risk: Opportunities, Barriers and A Way Forward*, Zurich Flood Resilience Alliance.
4. Demetriou, D., Stillwell, J.C.H. and See, L.M. 2012. LandParcelS: A Module for Optimum Land Partitioning. Working Paper 12/02. School of Geography, University of Leeds. <http://www.geog.leeds.ac.uk/research/csap/outputs/workingpapers/>.
5. Demetriou, D., Stillwell, J.C.H. and See, L.M. 2011. The Development and Evaluation of a New Model for Measuring Land Fragmentation. Working Paper 11/05. School of Geography, University of Leeds. <http://www.geog.leeds.ac.uk/research/csap/outputs/workingpapers/>.
6. Demetriou, D., Stillwell, J.C.H. and See, L.M. 2011. A Multi-attribute Decision-making Module for the Valuation of Alternative Land Consolidation Plans. Working Paper 11/02. School of Geography, University of Leeds. <http://www.geog.leeds.ac.uk/research/csap/outputs/workingpapers/>.
7. Gibbs, A., Stillwell, J.C.H. and See, L.M. 2010. A Geodemographic Classification of Primary Schools in London. Working Paper 10/09. School of Geography, University of Leeds. <http://www.geog.leeds.ac.uk/research/csap/outputs/workingpapers/>.
8. Demetriou, D., Stillwell, J.C.H. and See, L.M. 2010. LandSpacES: A Design Module for Land Consolidation: Method and Application. Working Paper 10/07. School of Geography, University of Leeds. <http://www.geog.leeds.ac.uk/research/csap/outputs/workingpapers/>.
9. Malleson, N., Heppenstall, A., See, L.M. and Evans, A. 2010. Evaluating an Agent-Based Model of Burglary. Working Paper 10/01. School of Geography, University of Leeds. <http://www.geog.leeds.ac.uk/research/csap/outputs/workingpapers/>.
10. Malleson, N., Heppenstall, A., See, L.M. and Evans, A. 2009. Simulating Burglary with an Agent-Based Model. Working Paper 09/03. School of Geography, University of Leeds. <http://www.geog.leeds.ac.uk/research/csap/outputs/workingpapers/>.

4 PRIZES

- 2022 IIASA Breakthrough Partnerships Award for CS4SDGs project in Ghana
 2001 IAHS Charles Tison Award for Best Paper in Hydrological Sciences Journal

5 PHD STUDENTS

- The An Ngo (2009): Agent-based modelling of shifting cultivation in Vietnam
 Nick Malleson (2010): Agent-based modelling of burglary in Leeds
 Tawee Chaipimonplin (2010): Improving neural network flood forecasting models

Giulia Napolitano (2011):	Exploring neural networks for real-time flood forecasting
Eran Sadek (2012):	Modelling residential water demand in Leeds using microsimulation incorporating behavioural data
Demetris Demetriou (2012):	The development of an intelligent spatial decision system for land consolidation
Yanan Jiang (2012):	Water resource allocation in England and Wales
Luke Burns (2014):	The development of an individual-based geodemographic classification
Dilek Fraisl (2022):	Citizen science and the UN Sustainable Development Goals

6 FUNDING

2022	Horizon Europe - LAMASUS (€5,595K; €1,201K to IIASA); WP lead
2020	ESA - CAMALIOT (€500K total; €139K to IIASA); IIASA Project Coordinator
2018	ESA - CrowdVal (€150K total; €80K to IIASA): wrote the proposal; WP lead
2018	ACRP - ADAPT-UHI (€250K total; €80K to IIASA): Project Coordinator
2017	Horizon 2020 - WeObserve (€1,069,508; €235,292 to IIASA): contributed to proposal writing and co-managing WP2 from the IIASA side
2017	JPI ERANET - FloodCitiSense (€1.92mio; €260K to IIASA): WP lead
2016	Horizon 2020 – LandSense (€5mio.; €750K to IIASA): contributed to proposal writing and provided project support
2016	Horizon2020 – GROW (€5mio; €300K to IIASA): contributed to proposal writing
2014	ESA - EducEO (€150,000 total; €31,000 to IIASA): WP Lead
2014	FFG - LACO-WIKI (€189,400 total; €96,500 to IIASA): Project Coordinator
2014	FFG - SATIDA (€489,546 total; €89,965 to IIASA): WP Lead
2013	ESRC Festival of Social Sciences (£2,000) for ‘Hacking the Smart City’ event (7-9 Nov 2013)
2012	ESA - GEOSAF (€198,000); WP lead; contributed to project management
2012	FFG - FarmSupport (€150,000); contributed to proposal writing and project management
2011	FFG - Landspotting (€331,036); contributed to proposal writing
2010	Environment Agency – A review of artificial neural networks (£6,000)
2008	British Council – MIUR/CRUI Agreement to fund travel and subsistence for collaboration with the University of Rome (La Sapienza) in the area of flood forecasting (£3,000)
2007-2009	Seven water companies – Hidden and transient population estimation (varying amounts on the order of £10,000 to £15,000 each)
2007	University of Leeds Teaching Quality and Enhancement Fund - An Online System to Support Postgraduate Research Supervision (£3,000)
2007	University of Leeds Academic Development Fund for Learning and Teaching – Enhancing GIS Teaching through Simulation and Gaming (£34,169)
2006	EPSRC INTERACT - Advances in Hydroinformatics: Data-driven Methods for Improved Modelling and Monitoring of Operational Systems – for organization of two workshops on flood risk, one in Japan and one in the UK (£10,613)
2006	EPSRC and the RGS - Comparison of Operational Flood Frequency Approaches with Artificial Neural Networks (£3,000)
2005	Royal Society Travel Award to visit Prof Ashu Jain at the Indian Institute of Technology and attend the 2 nd Indian International Conference on Artificial Intelligence (£1,600)
2003	British Council – MIUR/CRUI Agreement to fund travel and subsistence for collaboration with the University of Cagliari in the area of flood forecasting (£2,500)
2002	British Council – MIUR/CRUI Agreement to fund travel and subsistence for collaboration with the University of Cagliari in the area of flood forecasting (£1,100)
2001	Home Office – 1998 Population estimates of Basic Command policing Units (BCUs) (£3,750)

2000	Derbyshire Constabulary – Internal resource allocation of uniform constables (£8,750)
2000	Channel 4 – Creation of a league table of Crime and Disorder Reduction Partnerships (£2000)
2000	NERC – Travel/subsistence to attend two NERC Business Competition training workshops on commercialising academic outputs + £1,000 to write the Business Plan.
1999	Home Office – The development of a geodemographic classification for the Policing and Crime Reducing Unit of the Home Office (£32,400) + extension (£2,000)
1999	Environment Agency – The development of a stand-alone neural network package for use in the Northumbria area of the UK Environment Agency (£9,534)

7 PAST TEACHING EXPERIENCE

Face-to-face teaching

GEOG1270: GIS in the UK
 GEOG5020: Using Databases and GIS
 GEOG5540: Introduction to Programming and Customisation
 Supervision of 3rd year dissertation projects
 Supervision of masters level projects

Distance learning teaching on the MSc in GIS

GEOG5021: Using Databases and GIS
 GEOG5811: GIS in the Workplace
 GEOG5191: Geodemographics and Database Marketing
 GEOG5061: Geocomputation and GIS
 GEOG5231: GIS and Planning
 GEOG5221: Dissertation

Updating of materials for modules taught by others

GEOG5011: Principles of GIS – occasionally taught this module
 GEOG5051: Applied Environmental GIS – occasionally taught this module
 GEOG5091: Retail Decision Support Systems
 GEOG5561: Introduction to Java Programming

8 ADMINISTRATION

2021	Member of the IIASA Task Force on authorship guidelines
2021	Member of the Scientific Recognition Committee (SRC)
2019-2020	Member of the Strategy Task Force to aid in the development of IIASA's strategy for 2021-2030
2018-2020	Member of the Expert Advisory Board of the H2020-funded GROW Citizen Observatory project
2012-2016	Working Group 1 Leader of COST Action TD1202 'Mapping and the Citizen Sensor'
2012	Member of STAC subcommittee on General and Scientific Contracts
2006 – 2009	Exams Officer for several undergraduate and taught postgraduate programmes; plagiarism and appeals); member of the School Learning and Teaching Board
2003 – 2010	Programme Manager, Senior Developer and Pastoral Tutor of the MSc in GIS by distance learning (approx. 100 students per year)

2006 – 2010 University Committee on Collaborative Provision

9 OTHER ACTIVITIES

2021 Board member of the Independent Science Review of the European Space Agency's space programme

2019 – present Conference on Spatial Information Theory (COSIT 2020/2022) Program Committee

2021 – present Member of the IUCN SSC Species Monitoring Specialist Group

2017 – present Reviewer for the ISPRS Congress series of conferences

2017 – present Editorial Board member of the International Journal of E-Planning Research (IJEPR) and Scientific Committee member for the annual Conference on Urban E-Planning

2017 – present Editorial Board member of Journal of Geographical Systems

2015 – present Editor of Environment and Planning B

2013 – 2015 Review Editor of Frontiers in Environment (Agroecology and Land Use Systems)

2008 – 2014 Associate Editor of Hydrological Sciences Journal

2007 – 2010 Joint Chair of the Royal Geographical Society GIScience Research Group

Papers reviewed for: Advances in Water Resources, Applied AI, Applied Spatial Analysis, Area, American Society of Civil Engineers, Computers & Geosciences, Environment and Planning B, Earth Surface Processes and Landforms, Hydrology Earth System Sciences, Hydrological Sciences Journal, International Journal of GIS, Journal of Agricultural Science and Technology, Journal of Hydroinformatics, Journal of Hydrology, Journal of River Basin Management, Sensors, Transactions on Geosciences and Remote Sensing, Transactions on GIS, Water Management Journal, Water Resources Research.

Grant proposals/projects reviewed for: ESRC (UK), NSERC (Canada), ERC (EU), FP7 (EU), Hong Research Grants Council, DFG (Germany), Polish national science foundation, European Science Foundation, Norwegian Research Council, Dutch Research Council.