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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 Posts: Senior Research Scholar; Research Scholar
Apr 2011 – Mar 2014	Centre for Applied Spatial Analysis, University College London (UCL) Post held: Honorary Senior Lecturer; TALISMAN Training Co-ordinator
Oct 2010 – Sep 2013	School of Geography, University of Leeds Post held: Visiting Research Fellow
Aug 2004 – Sep 2010	School of Geography, University of Leeds Post held: 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
Summers of 1986-88	McMaster University/University of Toronto Post held: Research Assistant

3 PUBLICATONS / PRESENTATIONS / OUTPUTS

3.1 PAPERS

1. See, L. Gilliams, S., Conchedda, G., Degerickx, J., Van Tricht, K., Fritz, S., Lesiv, M., Laso Bayas, J.C., Rosero, J., Tubiello, F.N., Szantoi, Z. (2023, in press): Dynamic global-scale crop and irrigation monitoring. *Nature Food*.
2. Fraisl, D., See, L., Bowers, R., Seidu, O., Boakye Fredua, K., Bowser, A., Meloche, M., Weller, S., Amaglo-Kobla, T., Ghafari, D., Laso Bayas, J.C., Campbell, J., Cameron, G., Fritz, S., Ian McCallum, I. (2023): The contributions of citizen science to SDG monitoring and reporting on marine plastics. *Sustainability Science.* https://doi.org/10.3389/fpubh.2023.1202188
3. Orduna-Cabrera, F., Sandoval-Gastelum, M., McCallum, I., See, L., Fritz, S., Karanam, S., Sturn, T., Javalera, V., Gonzalez-Navarro, F.F. (2023): Investigating the use of street level imagery and deep learning to produce in situ crop type information. *Geographies*, *3*(3), 563-573; https://doi.org/10.3390/geographies3030029
4. Jung, M., Lesiv, M., Warren-Thomas, E., Schepaschenko, D., See, L., Fritz, S. (2023): The importance of capturing management in forest restoration targets. *Nature Sustainability*. https://doi.org/10.1038/s41893-023-01192-8
5. See, L., Soja, B., Kłopotek, G., Sturn, T., Weinacker, R., Karanam, S., Georgieva, I., Pan, Y., Crocetti, L., Rothacher, M., Navarro, V., Fritz, S., McCallum, I. (2023): Collecting Volunteered Geographic Information from the Global Navigation Satellite System (GNSS): Experiences from the CAMALIOT Project, *International Journal of Digital Earth*. https://doi.org/10.1080/13658816.2019.1572893
6. Fraisl, D., See, L., Estevez Fernandez, D., Tomaska, N., MacFeely, S. (2023): Citizen science for monitoring health-related SDGs and the World Health Organization's Triple Billion Targets. *Frontiers in Public Health*. https://doi.org/10.3389/fpubh.2023.1202188
7. Fraisl, D., See, L., Campbell, J., Danielsen, F., Andrianandrasana, H.T. (2023): The contributions of citizen science to the United Nations Sustainable Development Goals and other international agreements and frameworks. *Citizen Science: Theory and Practice*, 8(1): 27, pp. 1–6. https://doi.org/10.5334/cstp.643
8. Proden, E., Fraisl, D., See, L. (2023): Citizen science: What is in it for the official statistics community? *Citizen Science: Theory and Practice*, 8(1): 35, pp. 1–16. https://doi.org/10.5334/cstp.584
9. Shvidenko, A., Mukhortova, L., Kapitsa, E., Kraxner, F., See, L., Pyzhev, A., Gordeev, R., Fedorov, S., Korotkov, V., Bartalev, S., Schepaschenko, D. (2023): A modelling system for dead wood assessment in Northern Eurasian forests. *Forests*. *14*(1), 45; https://doi.org/10.3390/f14010045.
10. Hadi, Yowargana, P., Zulkarnain, M.T., Mohamad, F., Goib, B.G., Hultera, P., Sturn, T., Karner, M., Dürauer, M., See, L., Fritz, S., Hendriatna, A., Nursafingi, A., Melati, D., Prasetya, F.V.A.S., Carolita, I., Kiswanto, Firdaus, M.I., Rosidi, M., Kraxner, F. (2022): A national-scale land cover reference dataset from local crowdsourcing initiatives in Indonesia. *Scientific Data*, 9, 574, https://doi.org/10.1038/s41597-022-01689-5.
11. Tang, T., See, L., Wada, Y., Hofstra, N., Patel, A., Setiawati, S., Wibowo, D., Rahut, D., Seetha Ram, K.E. (2022): Accelerating progress towards universal Water Sanitation and Hygiene (WASH): Governance, technology and data for urban settings. *Environment and Planning B*, 49(8), https://doi.org/10.1177/23998083221128959.
12. Fritz, S., See, L., Grey, F. (2022): The grand challenges facing environmental citizen science. *Frontiers in Environmental Science*, 10:1019628, https://doi.org/10.3389/fenvs.2022.1019628.
13. Moltchanova, E., Lesiv, M., See, L., Mugford, J., Fritz, S. (2022): Optimizing crowdsourced land use and land cover data collection: A two-staged approach. *Land*, 11(7): 958, https://doi.org/10.3390/land11070958.
14. 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.
15. 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.
16. 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.
17. 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-

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18. Laso Bayas, J.C., See, L. Georgieva, I., Schepaschenko, D., Danylo, O., Dürauer, M., Bartl, H., Hofhansl, F., Zadorozhniuk, R., Burianchuk, M., Sirbu, F., Magori, B., Blyshchyk, K., Blyshchyk, V., Rabia, A.H., Pawe, C.K., Su, Y.-F., Ahmed, M., Panging, K., Melnyk, O., Vasylyshyn, O., Vasylyshyn, R., Bilous, A., Bilous, S., Das, K., Prestele, R., Pérez-Hoyos, A., Bungnamei, K., Lashchenko, A., Lakyda, M., Lakyda, I., Serediuk, O., Domashovets, G., Yurchuk, Y., Koper, M., Fritz, S (2022): Drivers of tropical forest loss during the last decade. *Scientific Data*, 9, 146, https://doi.org/10.1038/s41597-022-01227-3
19. Crooks, A., See, L. (2022): Leveraging street level imagery for urban planning. *Environment and Planning B*. https://doi.org/10.1177/23998083221083364
20. 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
21. 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
22. 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
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24. 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
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27. 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
28. 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
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31. 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
32. 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
33. 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

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35. Myroniuk, V., Bilous, A., Khan, Y., Terentiev, A., Kravets, P., Kovalevskyi, 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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37. 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
38. 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
39. 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
40. 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
41. Oswald, S., Hollosi, B., Zuvela-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
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45. 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
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3.5 CONFERENCE/WORKSHOP PRESENTATIONS, PAPERS, POSTERS AND SEMINARS (*presenter)

1. *See, L. 2023. Keynote: Citizen science as a key source of geographic information. GIScience 2023, Leeds, UK, 12-15 Sep 2023.
2. *Soja, B., Kłopotek, G., Pan, Y., Crocetti, L., Mao, S., Awadaljeed, M., Rothacher, M., See, L., Sturn, T., Weinacker, R., McCallum, I., Navarro, V. 2023. Machine learning-based exploitation of crowdsourced GNSS data for atmospheric studies. IGARSS, Pasadena CA, 16-21 Jul 2023.
3. *See, L., Sturn, T., Karanam, S., Subash, A., Fraisl, D., McCallum, I., Fritz, S. 2023. The Picture pile platform for Rapid Image Classification: demonstrating the potential for Citizen Science and SDG Monitoring. ISRSE39, Antalya, Türkiye, 24-28 April 2023. https://pure.iiasa.ac.at/id/eprint/18751/

4. *Fritz, S., Barrasso, C., Ehrmann, S., Lesiv, M., McCallum, I., Meyer, C., Laso Bayas, J.C., See, L. 2023. Opening up FAIR in-situ land-use reference data: current gaps, obstacles and future challenges. EGU, Vienna, 23-27 April 2023.
5. *Pan, Y., Kłopotek, G., Rothacher, M. See, L., Weinacker, R., Sturn, T., McCallum, I., Navarro, V., Soja, B., 2023. Troposphere monitoring based on crowdsourced smartphone GNSS data. EGU, Vienna, 23-27 April 2023.
6. *Sturn, T., See, L., Karanam, S., Fritz, S., 2023. Picture Pile. Österreichischen Citizen Science Konferenz 2023, 19-20 April 2023.
7. *Hager, G., *Moorthy, I., See, L. 2023. Citizen Science Daten und Praktiken – (Konflikt-)Potentiale für bürger*innenbasierte Datenströme und neue Formen urbaner Entscheidungsfindung. Österreichischen Citizen Science Konferenz 2023, 19-20 April 2023.
8. *See, L. 2023. Climate change adaptation and mitigation: The ADAPT-UHI and Urban ReLeaf projects. WU Seminar, Vienna, 11 April 2023.
9. *Soja, B., Navarro, V., Klopotek, G., Pan, Y., Crocetti, L., Awadaljeed, M., Rothacher, M., See, L., Sturn, T., Weinacker, R., McCallum, I. 2022. Determination of atmospheric parameters from globally crowdsourced GNSS data. AGU, Chicago, 12-16 Dec 2022.
10. *See, L., Sturn, T., Karanam, S., Subash, A., McCallum, I., Fritz, S. 2022. Combining a rapid image classification app with artificial intelligence through the Picture Pile Platform for citizen science, ECSA Conference, Berlin, 5-8 October 2022.
11. *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.
12. *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.
13. *Lesiv, M., Schepaschenko, D., See, L. 2022. Potential of citizen science to support forest monitoring, ForestSAT, Berlin, 29 August to 2 September 2022.
14. *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.
15. *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.
16. 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.
17. *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.
18. *See, L. 2022. Citizen Science in the EO*GI Sector, EO4GEO Workshop, 17-18 May 2022.
19. *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.
20. *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.
21. *See, L. 2022. The growing role of GEO in the urban nexus including citizen science. GEO Symposium 2022, online, 2-5 May 2022.
22. *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, Austra, 3-8 April 2022.

23. *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, Austra, 3-8 April 2022.
24. *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, Austra, 3-8 April 2022.
25. *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, Austra, 3-8 April 2022.
26. *Soja, B., Navarro, V., Klopotek, 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).
27. *Navarro, V., Soja, B., Nugnes, M., Kopotek, 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.
28. *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.
29. *Fritz, S., Sturn, T., Karner, M., Karanam, S., See, L., Laso Bayas, J.C. and McCallum, I. 2021. Crowdsourcing in-situ data colleciton using gamification. International Geoscience and Remote Sensing Symposium (IGARSS), 12- 16 July, 2021, remote.
30. *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.
31. *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.
32. *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.
33. *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.
34. *See, L. 2021. Picture Pile: Rapid image classification to support earth observation monitoring. Lessons from the LandSense project. ECSA Webinar, 3 Feb 2021.
35. *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.
36. *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.
37. *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.
38. *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.
39. *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.

40. *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.
41. *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.
42. *See, L. 2020. Citizen science and the United Nations Sustainable Development Goals. The 3rd International ECSA Conference, Trieste, Italy, 6-10 2020, remote conference.
43. *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.
44. *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.
45. *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.
46. *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.
47. *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
48. *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/
49. *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
50. *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.
51. *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.
52. *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.
53. 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.
54. *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 EARSel Symposium, Salzburg, Austria, 1-4 July 2019.
55. 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 EARSel Symposium, Salzburg, Austria, 1-4 July 2019.
56. *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.

57. *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.
58. *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.
59. *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.
60. *Laso Bayas, J. et al. 2019. AgroTutor: Promoting agricultural sustainable intensification and crowdsourcing plot information. ESA Living Planet Symposium, Milan May 2019.
61. *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.
62. *See, L., Novel Crowdsourcing Tools for In Situ Data Collection relevant to Agricultural EO Applications. ESA Living Planet Symposium, Milan, 13-17 May 2019.
63. *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.
64. 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.
65. *Kraxner, F. et al. 2019. Mapping Sustainable BECCS Potentials – A new methodology applied to the US. EGU, Vienna, 7-12 April 2019.
66. *Oswald, S.M., Hollosi, B., Zuvela-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.
67. *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.
68. *Oswald, S., Hollosi, B., Zuvela-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.
69. 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.
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3.6 CONFERENCE SESSIONS AND WORKSHOPS ORGANISED/PROGRAMME COMMITTEE MEMBER

1. Schepaschenko, D., See, L., Lesiv, M. 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 Geopysical Union (AGU) meeting, San Francisco, 5-9 December 2005.

3.7 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.

3.8 BLOG POSTS

1. Laso Bayas J.C., Hofer, M., McCallum, I., See, L., Fritz, S. 2023. From farm to space and back: adapting Austrian agriculture to climate change. https://iiasa.ac.at/blog/feb-2023/from-farm-to-space-and-back-adapting-austrian-agriculture-to-climate-change
2. 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/
3. See, L. 2017. Bringing satellite data down to Earth. https://blog.iiasa.ac.at/2017/06/12/bringing-satellite-data-down-to-earth/
4. 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/
5. 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/
6. See, L., 2013. How games can help science: Introducing Cropland Capture https://blog.iiasa.ac.at/2013/11/20/how-games-can-help-science-introducing-cropland-capture/

3.9 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/.
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3.10 REPORTS

1. Fraisl, D., Topouzelis, K., See, L. 2023. Feasibility study on marine litter detection and reporting in Ghana. Report for SDSN Trends.

2. Klopotek, G., Pan, Y., Crocetti, L., Awadaljeed, M., Rothacher, M., Sturn, T., Weinacker, R., See, L., Fritz, S., McCallum, I., Navarro, V., Soja, B. 2023. Crowdsourcing GNSS Observations for Atmospheric Monitoring. IUGG Country Report 2019-2023 for Switzerland.
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6. Fritz, S. and See, L. Characterizing and Validating Global Land Cover Workshop Report. IIASA 13-15 June 2011.
7. McDonald, A. and See, L.M. 2010. A Review of Artificial Neural Networks. Environment Agency, UK.
8. 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.
9. 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.
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14. 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.
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16. 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.
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3.11 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/.

3.12 PAPERS SUBMITTED/IN REVISION

1. Martinez-Sanchez, L., See, L., d'Andrimont, R., Yordanov, M., Elvekjaer, N., Astrid Verhegghen, A., Muraro, D., van der Velde, M. Automatic classification of land cover from LUCAS in-situ landscape photos using semantic segmentation and a Random Forest model. *Environmental Software and Modelling*.
2. Crocetti, L., Schartner, M., Zus, F., Zhang, W., Moeller, G., Navarro, V., See, L., Schindler, K., Soja, B. Global, spatially explicit modelling of zenith wet delay with XGBoost. *Geodesy*.
3. Fraisl, D., See, L., MacFeely, S., de Sherbinin, A., Carletto, G., Bras, F. 2023. Citizen science for SDG delivery, data, and measurement. *The Elgar Companion to Data and Indicators for the Sustainable Development Goals*. Elgar Publishing.
4. McCallum, I., Walker, J., Fritz, S., Grau, M., Hannan, C., Hsieh, I.-S., Lape, D., Mahone, J., McLester, C., Mellgren, S., Piland, N., See, L., Svolba, G., de Villiers, M. Crowd-driven deep learning tracks Amazon deforestation. *Remote Sensing*.
5. Kłopotek, G., Pan, Y., Sturn, T., Weinacker, R., See, L., Crocetti, L., Awadaljeed, M., Rothacher, M., Fritz, S., McCallum, I., Navarro, V., Benedikt, S. A cloud-native approach for processing of crowdsourced GNSS 0bservations machine learning at scale: A case study from the CAMALIOT project. *Advances In Space Research*.
6. Fraisl, D., Haklay, M. et al. Delineating the contours of citizen science: development of the ECSA characteristics of citizen science. *Citizen Science Theory and Practice*.

4 PRIZES/AWARDS

2022 IIASA Recognition Award (Breakthrough Partnerships) for the CS4SDGs project (with Dilek Fraisl)
2001 IAHS Charles Tison Award for Best Paper in Hydrological Sciences Journal ($1,000)

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

2022-2026	Horizon Europe – Urban ReLeaf (€4.5 Mio. total; 980K to IIASA); contributed to proposal writing and project team member
2022-2026	Horizon Europe – LAMASUS (€5.6 Mio. total; 1.2 Mio. to IIASA); NODES PI (WP2 lead on the development of a land use management geodatabase)
2022-2023	UN SDSN – CS4SDGs v2.0 (€19.3K); project team member
2020-2023	EC – ILUC-HCS (€1.48 Mio. total; €310K to IIASA); contributed to proposal and paper writing
2021-2022	ESA – CAMALIOT (€500K total; 139K to IIASA); IIASA PI
2021-2023	ERC Proof of Concept – Picture Pile Platform (€500K); contributed to proposal writing, communication and dissemination activities
2020-2021	UN SDSN and German Development Agency – CS4SDGs (50K USD); team member and contributing to final output
2020-2022	ESA – Crowd2Train (€164,238 total; €109,804 to IIASA); contributed to proposal writing and data collection
2020	EEA – LACO-Wiki update (€25K); wrote the proposal and PI
2018-2019	ESA – CrowdVal (€150K total; €80K to IIASA); wrote the proposal and WP lead
2018-202	ACRP – ADAPT-UHI (€250K total; €80K to IIASA): PI
2017-2022	Horizon 2020 – WeObserve (€1,069,508; €235,292 to IIASA): contributed to proposal writing and managing WP2 on the IIASA side
2017-2020	JPI ERANET – FloodCitiSense (€1.68mio; €260K to IIASA): WP lead
2015-2020	Horizon 2020 – LandSense (€5mio.; €750K to IIASA): contributed to proposal writing and provided project support
2015-2019	Horizon 2020 – GROW (€5mio; €300K to IIASA): contributed to proposal writing, member of the Scientific Advisory Board
2014-2015	ESA – EducEO (€150,000 total; €31,000 to IIASA): WP Lead
2014-2015	FFG – LACO-WIKI (€189,400 total; €96,500 to IIASA): PI
2014-2014	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)
2012-2013	ESA – GEOSAF (€198,000); WP lead; contributed to project management
2012-2014	FFG – FarmSupport (€150,000); contributed to proposal writing and project management
2011-2013	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 2nd 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

2022 – present	Editorial Board member of Land
2021 – present	Member of the IUCN SSC Species Monitoring Specialist Group
2021	Panel member of the Independent Science Review of the European Space Agency's Earth Observation programme, leading to a report
2020	Expert Group on Measuring Progress: Nature and the SDGs, led by UNEP, leading to a report
2019 – present	Conference on Spatial Information Theory (COSIT 2020/2022) Program Committee
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

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.

Special issues organized in: Environment and Planning B, Remote Sensing, ISPRS International Journal of Geographic Information, Land, Journal of Geographical Systems, International Journal of Digital Earth, Citizen Science Theory and Practice.