Name of teacher:	Suzana Ilić

Employed at: Since:	Lancaster Environment Centre (LEC), Lancaster University 1999

Academic rank: Since: In:	Dr 1999 Coastal Engineering

e-mail address, web page	s.ilic@lancaster.ac.uk; http://www.lancaster.ac.uk/lec/about-

Knowledge of foreign languages:	English, Croatian, German

Qualifications	**- First degree obtained at:**University of Rijeka, Croatia **- Master degre obtained at:**Institure for Hydraulic and Environmental Engineering, Delft, the Netherlands **- Ph.D. degree obtained at:**University of Plymouth, UK **- additional education:** 2015 Lancaster University Bonington Leadership programme - certificate 2004 Certificate in Learning & Teaching in Higher Education, Lancaster University (Stage 2) 2002 Accreditation as an Associate Teacher in Higher Education, Lancaster University 2001 Learning and Teaching in Higher Education Programme, Stage 1 Certificate, Lancaster University 2000 Attended the workshop on 'Designing and Delivering Courses/Modules in Geography, Earth and Environmental Sciences: A Workshop for New and Recently Appointed Teaching Staff' 1991 PG Dipl. International Institute for Hydraulic and Environmental Engineering (IHE), Delft, The Netherlands; supported by the Dutch Nuffic scholarship 1987 Professional Engineer Certificate Committee for Architecture and Civil Engineering of Croatia, Zagreb, Croatia **- previous employments:** 2015-current Senior Lecturer in Physical Geography, Lancaster Environment Centre, University of Lancaster 1999-2015 Lecturer in Physical Geography, Lancaster Environment Centre, University of Lancaster 1996-1999 Research Fellow, (EPSRC funded project), School of Civil and Structural Engineering, University of Plymouth 1993-1996 Research Assistant, (EPSRC funded project), Department of Civil Engineering University of Brighton (1993); School of Civil and Structural Engineering, University of Plymouth, UK 1992-1993 Teaching Assistant, Civil Engineering Faculty, University of Rijeka, Croatia 1991-1992 Teaching Assistant, International Institute for Hydraulic and Environmental Engineering (IHE), Delft, The Netherlands 1987-1990 Teaching Assistant, Faculty of Civil Engineering, University of Rijeka, Croatia 1985-1990 Consulting Engineer, Civil Engineering Institute of Croatia, Rijeka, Croatia <u>External Examiner Roles</u> 2012 - 2016 External examiner for undergraduate course in Environmental Science and Sustainability, University of Glasgow 2012 - 2016 External examiner for undergraduate course in Ocean Science, University of Plymouth 2009 - 2012 External examiner for two postgraduate courses: Erasmus Mundus Programme MSc Coastal and Marine Engineering and Management, and MSc Engineering in Marine Environment at School of Civil Engineering and the Environment and National Oceanographic Centre at Southampton University.

	Service roles outside LEC 2021 - ongoing Member of the Lancaster University EDI Committee 2021 - ongoing Chair of the Faculty of Science and Technology EDI Committee 2019 - 2021 Co-Chair – EDI Strategy Faculty of Science and Technology Service roles in LEC 2023 - ongoing EDI Lead and a member of Senior Management Group in LEC 2022 – 2023 Athena Swan Lead in LEC; Silver Award 2018 - 2022 Study Abroad Academic Advisor for 120+ students 2017- 2018 Academic Lead, Centre for Global Eco-Innovation, LoCal_i (until sabbatical) 2014 – 2016 Director of Studies, Part I Geography 2011 - 2014 Director of Studies, Part II Geography 2011 -2016 & 2018-2022 Member of LEC Learning and Teaching committee 2010- 2015 Member of Examination sub-committee in Geography 2009-2011 LEC disability and equality officer 2008 Faculty Job Evaluation Review Group – job evaluation for research and technical staff 2003-2004 Director of Studies for MSc in Environmental Informatics 2000 – 2003 Member of the Faculty Staff Development Committee 1999-2003 Admissions –a member of the Departmental Admissions team 1999- Member of number of appointing committees for research and academic staff in LEC, Physics, Engineering, Mathematics and Statistics Engagement roles outside the University 2024 - ongoing Coastal Advisor – Northumbria Regional Flood and Coastal Committee; Environment Agency apointee 2019 - 2023 Coastal Advisor – North West Regional Flood and Coastal Committee; Environment Agency apointee 2022 - ongoing Board member for the Environment Agency, Flood and Coastal Resilience Innovation Programme funded project – Our Future Coast 2004 – ongoing Member of UK Young Coastal Scientists and Engineers Steering Committee Other roles: Member of Scientific Committee for UK Coastal Research Conferences; Member of the Editorial Board for Ocean and Coastal Management Journal; grant reviews and panel member for EPSRC and NERC

List of papers published in scientific journals	**Recent and Selected Publications** **a) Journal Papers** [1] Ouro, P., Fernandez, R., Armstrong, A., Brooks, B., Burton, R.R., Folkard, A., Ilic, S., Parkes, B., Schultz, D.M., Stallard, T. and Watson, F.M., 2024. Environmental impacts from large-scale offshore renewable-energy deployment. Environmental Research Letters, 19(6), p.063001. [2] Pollastri, S, Earl, J, Edwards, L & Ilic, S 2023, 'Morecambe Bay Timescapes: Drawing together coastal futures that will, may, or could', TRACEY. [3] Bujak, D, Ilic, S, Miličević, H & Carević, D 2023, 'Wave Runup Prediction and Alongshore Variability on a Pocket Gravel Beach under Fetch-Limited Wave Conditions', Journal of Marine Science and Engineering (JMSE), vol. 11, no. 3, 614. https://doi.org/10.3390/jmse11030614 [4] Earl, J, Gormally-Sutton, A, Ilic, S & James, M 2022, ''Best day since the bad germs came': Exploring changing experiences in and the value of coastal blue space during the COVID-19 pandemic, a Fylde Coast case study', Coastal Studies & Society, vol. 1, no. 1, pp. 97-119. https://doi.org/10.1177/26349817211065321 [5] Tadić, A, Ružić, I, Krvavica, N & Ilić, S 2022, 'Post-Nourishment Changes of an Artificial Gravel Pocket Beach Using UAV Imagery', Journal of Marine Science and Engineering (JMSE), vol. 10, no. 3, e358. https://doi.org/10.3390/jmse10030358 [6] Bujak, D, Bogovac, T, Carević, D, Ilic, S & Lončar, G 2021, 'Application of artificial neural networks to predict beach nourishment volume requirements', Journal of Marine Science

and Engineering (JMSE), vol. 9, no. 8, 786. https://doi.org/10.3390/jmse9080786
[7] Ewans, K, Christou, M, Ilic, S & Jonathan, P 2021, 'Identifying Higher-Order Interactions in Wave Time-Series', Journal of Offshore Mechanics and Arctic Engineering, vol. 143, no. 2, 021201. https://doi.org/10.1115/1.4047930
[8] Ma, J, Ma, X & Ilic, S 2019, 'HVAC-based cooperative algorithms for demand side management in a microgrid', Energies, vol. 12, no. 22, 4276. https://doi.org/10.3390/en12224276
[9] Luxmoore, JF, Ilic, S & Mori, N 2019, 'On kurtosis and extreme waves in crossing directional seas: A laboratory experiment', Journal of Fluid Mechanics, vol. 876, pp. 792-817. https://doi.org/10.1017/jfm.2019.575
[10] Miles, A, Ilic, S, Whyatt, JD & James, MR 2019, 'Characterizing beach intertidal bar systems using multi-annual LiDAR data', Earth Surface Processes and Landforms, vol. 44, no. 8, pp. 1572-1583. https://doi.org/10.1002/esp.4594
[11] Pikelj, K, Ružić, I, Ilic, S, James, M & Kordić, B 2018, 'Implementing an efficient beach erosion monitoring system for coastal management in Croatia', Ocean and Coastal Management, vol. 156, pp. 223-238. https://doi.org/10.1016/j.ocecoaman.2017.11.019
[12] McGovern, DJ, Ilic, S, Folkard, AM, McLelland, SJ & Murphy, BJ 2015, 'Closure to "time development of scour around a cylinder in simulated tidal currents" by David J. McGovern, Suzana Ilic, Andrew M. Folkard, Stuart J. McLelland, and Brendan J. Murphy', Journal of Hydraulic Engineering, vol. 141, no. 7, 07015006. https://doi.org/10.1061/(ASCE)HY.1943-7900.0000857
[13] Ružić, I, Benac, Č, Marović, I & Ilic, S 2015, 'A stability assessment of coastal cliffs using digital imagery', Acta Geotechnica Slovenica, vol. 12, pp. 25-35.
[14] Ruzic, I., Marovic, I, Benac, C and Ilic, S. (2014). Stability Assessment of Coastal Cliffs Using Digital Imagery. Acta Geotechnica Slovenica,.
[15] Ruzic, I., Marovic, I, Benac, C and Ilic, S. (2014). Coastal Cliff Geometry Derived from Structure-From-Motion photogrammetry at Stara Baska, Krk Island, Croatia. Geo-Marine Letters, 1-11, published online August 2014.
[16] McGovern, D., Ilic, S., Folkard A., McLelland, S. and Murphy, B. (2014). Time Development of Scour around a Cylinder in Simulated Tidal Currents. Journal of Hydraulic Research, ASCE, 140 (6), p.04014014.
[17] Tomasicchio, G.R, Sanchez-Arcilla, A., D'Alessandro, F., Ilic, S., James, M.R., Sancho, F., Fortes, C.J.E.M. and Schüttrumpf, H. (2011). Large-Scale Flume Experiment of Dune Erosion Processes. Journal of Hydraulic Research, SI-Hydralab III (CMH)-IAHR, 49 (S1), 20-30.
[18] Podobnik, B., Grosse, I., Horvatic, D., Ilic, S., Ivanov, P.C., and Stanley, H.E. (2009). Quantifying Cross-Correlations Using Local and Global Detrending Approaches. European Physical Journal B, 71 (2), 243-250.
[19] Juracic, M., Benac, C., Pikelj, K and Ilic, S. (2009). The Vulnerability of Limestone (Karst) Coast Compared to Siliciclastic One (Example from the Kvarner Area, NE Adriatic, Croatia). Geomorphology, 107, (1-2), 90-99.
[20] Yamada, F., Tsujimoto, G., Sayaka, K., Ikeda, Y., Hokamura, T. and Ilic, S. (2009). Time-Space Variations of Sediment Density and Porosity Profiles due to Beach Deformations using X-ray CT. Annual Journal of Coastal Engineering, (in Japanese), B2-65 (1), 681-685.
[21] Gunawardena, Y., Ilic, S., Pinkerton, H. and Romanowicz, R. (2009). Nonlinear Transfer Function Modelling of Beach Morphology at Duck, North Carolina. Coastal Engineering, 54(1), 46-58.
[22] Gunawardena, Y., Ilic, S., Southgate, H. and Pinkerton, H. (2008). Analysis of the Spatio-Temporal Behaviour of Beach Morphology at Duck Using Fractal Methods. Marine Geology, 252, 38-49.
[23] Ilic, S., van der Westhuysen, A.J., Roelvink, J.A. and Chadwick, A.J. (2007). Multidirectional Wave Transformation around Detached Breakwaters. Coastal Engineering, 54(10), 775-789.
[24] Erduran, K., Ilic, S., Kutija, V. 2005, Hybrid Finite-Volume Finite-Difference Scheme for the Solution of Boussinesq Equations, International Journal Numerical Methods in Fluids, 49, pp 1213-1232.
[25] Ilic, S., Chadwick, A.J., Helm-Petersen, J. (2000). An Evaluation of Directional Analysis Techniques for Multidirectional, Partially Reflected Waves: Part 1 Numerical Investigations. Journal of Hydraulic Research, 38(4), 243-253.

[26] Chadwick, A.J., Ilic, S., Helm-Petersen, J. (2000). An Evaluation of Directional Analysis Techniques for Multidirectional, Partially Reflected Waves: Part 2 Application to Field Data. Journal of Hydraulic Research, 38(4), 253-259.
[27] Chadwick, A.J., Pope, D.J., Borges, J., Ilic, S. (1995). Shoreline Directional Wave Spectra. Part 1. An Investigation of Spectral and Directional Analysis Techniques. Proc Instn Civ Engrs, Water Maritime and Energy, 112 (3), 198-208.
[28] Chadwick, A.J., Pope, D.J., Borges, J., Ilic, S. (1995). Shoreline Directional Wave Spectra. Part 2. Instrumentation and Field Measurements. Proc Instn Civ Engrs, Water Maritime and Energy,112 (3), 209-214.

b) Book chapter:

[29] Luxmoore, JF, Ilic, S & Mori, N 2019, 'On kurtosis and extreme waves in crossing directional seas: A laboratory experiment', Journal of Fluid Mechanics, vol. 876, pp. 792-817.

c) Papers in conference proceedings (each with matching presentation):

[30] Pollastri, S, Earl, J, Edwards, L & Ilic, S 2022, 'Morecambe Bay Timescapes: Young People Envisioning Possible Futures of their Coasts ', RGS-IBG Annual International Conference, Newcastle, United Kingdom, 30/08/22 - 2/09/22.
[31] Pollastri, S, Ilic, S, Earl, J & Edwards, L 2022, 'Tidescapes. Sea level rise and trash tides; engagement with coastal communities through citizen science and the arts (panel).', Reimagining Landscape, Lancaster, United Kingdom, 7/07/22 - 8/07/22.
[32] Lončar, G, Carević, D, Ilić, S, Krvavica, N & Kalinić, F 2020, 'MORFODINAMIKA ŠLJUNČANOG ŽALA PLOČE U UVJETIMA JAKOG JUGA', Hrvatske Vode, vol. 28, no. 113, pp. 205-216. (https://www.voda.hr/hr/casopis-hrvatske-vode/broj-113)
[33] Dike, E, Ilic, S, Whyatt, D & Folkard, A 2020, 'Shoreline Delineation in Complex Intertidal Environments using Sentinel-1 SAR Imagery.', pp. 1.
[34] Potter, D, Ilić, S & Folkard, A 2020, Assessing the Impact of Rows of Tidal-Stream Turbines on the Overtides of the M2. in Springer Water. Springer Water, Springer Nature, pp. 197-216. https://doi.org/10.1007/978-981-15-2081-5_13
[35] Ewans, K, Christou, M, Ilic, S & Jonathan, P 2019, Identifying higher-order interactions in wave time-series. in Proceedings of the ASME 2019 38th International Conference on Ocean, Offshore and Arctic Engineering OMAE2019 June 9-14, 2019, Glasgow, Scotland., OMAE2019-95378, ASME, 38th International Conference on Ocean, Offshore & Arctic Engineering, Glasgow, United Kingdom, 9/06/19. https://doi.org/10.1115/OMAE2019-95378
[36] O'Keefe, L & Ilic, S 2016, Effects of changes in flow velocity on the phytobenthic biofilm below a small scale low head hydropower scheme. in S Erpicum, B Dewals, P Archambeau & M Pirotton (eds), Sustainable Hydraulics in the Era of Global Change: Proceedings of the 4th IAHR Europe Congress (Liege, Belgium, 27-29 July 2016). CRC Press, London. <https://www.routledge.com/Sustainable-Hydraulics-in-the-Era-of-Global-Change-Proceedings-of-the/Erpicum-Dewals-Archambeau-Pirotton/p/book/9781138029774>
[37] Ružić, I, Ilic, S & Benac, Č 2015, 'Measuring pocket-gravel beach changes with a digital camera', Paper presented at International Short Course and Conference on Applied Coastal Research, Florence, Italy, 28/09/15 - 1/10/15.
[38] Ilic, S., Luxmoore, J. and Mori, N. (2015) Spectral Evolution and Freak Wave Occurrence in Bimodal Seas: Laboratory and Numerical Experiments, Proceeding SCACR conference (in press).
[39] Miles, A., Ilic, S., James, M.R. and Whyatt, D. (2013). Morphological Evolution around a Groyne Structure at Cleveleys Beach, Northwest England, During a Range of Wave Conditions. Proceedings Coastal Dynamics 2013, SHOM, 1195-1206.
[40] James, M.R., Ilic, S., and Ruzic, I. (2013). Measuring 3D Coastal Change with a Digital Camera. Proceedings Coastal Dynamics 2013, SHOM, 893-904.
[41] Luxmoore, J. F., Ilic, S., Folkard, A. M., McLelland, S. J., Murphy, B. (2013). Steep Wave Impact on a Jacket Type Wind Turbine Substructure. Proceedings, 23rd International Offshore and Polar Engineering Conference, Anchorage, ISOPE 2013, 1, 211-215.
[42] McGovern, D., Ilic, S., Folkard, A., McLelland, S., and Murphy, B. (2012). Evolution of Local Scour around a Collared Monopile through Tidal Cycles. Coastal Engineering Proceedings, 1(33), CERC, sediment.113.

	[43] Miles, A., Ilic, S., James, M.R. and Whyatt, D. (2012). Morphological Variability of Cleveleys Beach, UK at Multiannual Timescales Based on Airborne LIDAR Data. Proceedings of the GIS Research UK 20th Annual Conference, Lancaster University, 1, 263-268. [44] Tomasicchio, G.R, D'Alessandro, F., Fortes, C.J.E.M., Ilic, S., James, M.R., Sanchez-Arcilla, A., Sancho, and Schüttrumpf, H. (2011). Dune Erosion and Overwash in Large-Scale Flume Experiments. Proceedings of the Coastal Sediments '11, World Scientific, 796-809. [45] Gao, F., McGovern, D., Mingham, C.G. and Ilic, S. (2010). Numerical and Experimental Investigation of Turbulent Flow around a Vertical Circular Cylinder. Proceedings the 20th International Offshore (Ocean) and Polar Engineering Conference, Beijing, ISOPE 2010, 639-643. [46] Bannon, P.G., Marshall, I.W., James, M. and Ilic, S. (2010). The Assimilation of Historic Photography and Cartography into Longterm Coastal Geomorphological Analysis. International Society for Environmental Information Sciences 2010 Annual Conference, International Conference on Ecological Informatics and Ecosystem Conservation (ISEIS 2010), Procedia Environmental Sciences, 2,527-534. [47] McGovern, D., Ilic, S., Folkard, A., McLelland, S. and Murphy, B. (2009). Turbulence and Shear Stress around Offshore Wind Turbine Pile in Tidal Currents Using Particle Image Velocimetry. Proceedings Coastal Dynamics conference, World Scientific, paper 141 (1-13). [48] Green, C. and Ilic, S. (2009). The Application of Argus Video Monitoring for Assessing the Impact of Coastal Structures on Beaches, DEFRA/EA Flood and Coastal Risk Management Conference. [49] Ilic, S., Gunawardena, Y., Romanowicz, R. and Pinkerton, H. (2009). Prediction of Beach Volumes at Duck Using Transfer Function Models. Proceedings 8th Hydroinformatics Conference, Chile. IAHR, 1, 477-487.

List of publications which serve as a proof of teaching qualifications	*Fellow of the Higher Academy of Education UK* *1* Karleusa, B., Deluka-Tibljas, A., Ilic, S., and Dragicevic, N. (2010). Developing Awareness about Sustainable Development in Civil Engineering Studies. Proceedings International conference Engineering Education 2010: Inspiring the next generation of engineers; The Higher Education Academy: Engineering Subject Centre 2 Ilic, S., Karleusa, B., and Deluka-Tibljas, A. (2010). Increasing Awareness of Sustainable Water Management for Future Civil Engineers. Poster presentation at EGU General Assembly 2010. 3 Karleusa, B., Deluka-Tibljas, A., Ozanic, N. and Ilic, S. (2009). The Role of Higher Education in Developing Awareness about Water Management. Proceedings 11th International Symposium on Water Management and Hydraulic Engineering, Ohrid, Macedonia. See also educational qualifications above

Leader of the following research projects	• 2025-2026 Coastal Adaptation, Wyre Borough Council – principal investigator; (£97,649.60); PI • 2021-2022 CoastaLiveLab: EPSRC IAA Public Engagement Funding – principal investigator; completed in 2022; (£2000); PI • 2016-2017 IAA: Efficiency and environmental effects the River Power Pod (RPP); (with Fern Innovation) EPSRC; (£49,875); PI. • 2014-2015 RAGBICOM: Resilience of Artifical Gravel Beach and Implications for Coastal Management; EU Marie Curie action & the Ministry of Science, Education and Sport, Croatia; (£42,934); PI .

	• 2014 IAA: Improving the performance of DeltaStream turbines by understanding effects of spatial and temporal variation in flow on loading and output power; (with Tidal Energy Ltd.) EPSRC; (£7,290); PI. • 2014 Cantexx – TSB Voucher (£5000), PI • 2013 IAA: Investigation of tidal turbines on downstream flow (with Cantexx); EPSRC; (£4,950); PI. • 2012-2015 Centre for Global Eco-Innovation (GCE) – PhD studentship with Green Tide Ltd.; (PhD studentship and fees + £6k), PI. • 2010-2014 Supergen Wind Energy Technologies Consortium, phase 2: Experimental study of the interactions between wind turbine support structures and impacting waves and flows; EPSRC, (£134,052); Lancaster University's PI.http://www.supergen-wind.org.uk/index.html. 2009-2013 A study of shoreface nourishment using ARGUS video images; funded by the consortium of Wyre Borough Council, the Environment Agency North West and Stena Line); (£90, 000); PI. • 2006-2010 Supergen Wind Energy Technologies Consortium; phase 1: Experimental study of scour around offshore wind farms; EPSRC; (£122,548); Lancaster University's PI • 2006-2009 Investigation of the impact of a seawall on the shoreline using Argus video images; funded by the Wyre Borough Council; (£70,303); PI. • 2002-2003 Finite-Volumes Numerical Models for Prediction of Nearshore Currents; EPSRC – first grant; (£62,026); PI. • EU Hydralab IV – Experimental investigation of nonlinear interactions, wave turbulence and rogue waves (2012); DAIWA foundation – 'Coastal management in Japan and UK' (2008).

Participant in the following research projects	2023 – 2027 4C-Flood - Compound Flooding in Coastal Croatia under Present and Future Climate The Croatian Science Foundation, CI 2023- 2024 Coastal Nature Lab; UKRI/EPSRC; (£16,394.40), CI 2021- 2022 Morecambe Bay Timescapes; Engaging Young People in Visualising Coastal Futures; AHRC; (£9,159); CI 2021- 2022 ECO-CoBS Coastal Buffer Strips; Wyre Borough Council/DEFRA; (£15,000); CI 2019- 2023 BEACHEX: Sustainable construction of artificial gravel beaches-construction of new beaches and an increase of existing capacity; The Croatian Science Foundation; CI 2017 – Forecasting river levels utilising non stationarity; EPSRC; (£21,969); CI EU Hydralab III – 1) Flow interaction with patchy dynamic vegetation (2008) and 2) Dune Overwash and Breaching (2009);

Supervision of MSc theses	More than 30 + 2 Mres (master by research)

Examination of PhD theses	12

Examination of MSc theses	N/A for MSc - 1 examination of MRes

Examination of PhD theses	External Examiner for 12 PhD theses