

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name	LUCA BELELLI MARCHESINI
Address	FONDAZIONE EDMUND MACH VIA EDMUND MACH 1, 38098 SAN MICHELE ALL'ADIGE (TN)
Telephone	+39 0461 615870
SCOPUS links	https://www.scopus.com/authid/detail.uri?authorId=37002493800 (Scopus Author)
Other links	https://orcid.org/0000-0001-8408-4675 (ORCID) https://publons.com/researcher/2479786/luca-belelli-marchesini/ (Researcher ID)
E-mail	luca.belellimarchesini@fmach.it
Nationality	Italian
Date of Birth	2 June 1975
Gender	Male

WORK EXPERIENCE

- | | |
|--|---|
| • Dates (from - to) | March 2019 - date |
| • Name and address of the employer | Department of Sustainable Agroecosystems and Bioresources, Fondazione Edmund Mach, San Michele all'Adige (Italy). |
| • Type of business or sector | Scientific research (Foundation) |
| • Occupation or position held | Researcher |
| • Main activities and responsibilities | Research in the field of forest ecophysiology at different spatial scales also by means of IoT devices and GHG flux monitoring infrastructures. Project proposals preparation. |
| • Dates (from - to) | October 2018 – February 2019 |
| • Name and address of the employer | Agrarian Technological Institute of the Russian University for the People's Friendship (RUDN), Moscow (Russia). |
| • Type of business or sector | Scientific research (Public University) |
| • Occupation or position held | Researcher, Associate Professor |
| • Main activities and responsibilities | Development of Internet of Things (IoT) based devices for the monitoring of trees biological parameters and processes including growth, water transport, canopy spectral reflectance/transmittance, wood physical parameters. |
| • Dates (from - to) | September 2016 – July 2018 |
| • Name and address of the employer | School of Natural Sciences, Far Eastern Federal University, Vladivostok (Russia) |
| • Type of business or sector | Scientific research (Public university) |
| • Occupation or position held | Researcher (Head of Research) |
| • Main activities and responsibilities | Development of the Far Eastern Climate Smart Lab research line on environmental monitoring (greenhouse gas flux observations) of terrestrial and marine environments in Far Eastern Russia. Lecturing on ecosystem and global change ecology for bachelor /master courses and international summer schools. Supervision of students' theses at Bachelor/Master level. |
| • Dates (from - to) | November 2017 – January 2018 |
| • Name and address of the employer | Euro-Mediterranean Centre on Climate Change, Lecce (Italy) |
| • Type of business or sector | Scientific research (Foundation) |
| • Occupation or position held | Scientific collaborator |
| • Main activities and responsibilities | Testing and application of Internet of Things (IoT) technology for the monitoring of trees biology (Tree-Talker devices). |

• Dates (from - to) • Name and address of the employer • Type of business or sector • Occupation or position held • Main activities and responsibilities	December 2011- November 2015 Vrije Universiteit (VU), Amsterdam (The Netherlands) University Scientific research and teaching assistance Research associate (Post-doc) Research on GHG flux measurements in tundra and peatland ecosystems in the framework of the PAGE21 and InGOS EU funded projects Teaching assistance (Practice) for the course of Statistics and Data analysis.
• Dates (from - to) • Name and address of the employer • Type of business or sector • Occupation or position held • Main activities and responsibilities	December 2005- December 2008 Agrotec S.p.A., Rome (Italy) Private company Consultant, Project manager JI/CDM mechanisms and carbon sequestration expert. BioCarbon Fund – Reforestation Project in Ukraine: analysis of Kyoto compliant carbon sequestration potential and evaluation of the Green Investment Scheme in the national forestry sector. Afforestation/Reforestation CDM project in Berane (Republic of Montenegro) feasibility study.
• Dates (from - to) • Name and address of the employer • Type of business or sector • Occupation or position held • Main activities and responsibilities	August 2002 – December 2011 Department of Forest Environment Sciences and Resources (DiSAFRi), University of Tuscia, Viterbo (Italy) Scientific research (Public university) Research assistant, Research associate (Post-doc) Research topics: Impact of climate variability and extreme climatic events on the carbon budget at ecosystem scale- EU CARBO-Extreme project; Processing of eddy covariance data from the sites network of the CARBOITALY project; Analysis of the functionality of steppe ecosystems in respect with global changes and carbon cycle- EU Project TCOS-Siberia. Lecturer in postgraduate courses, summer schools. Teaching assistance for the Forest Ecology course.

EDUCATION AND TRAINING

• Dates (from - to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded	January 2003 – April 2007 University of Tuscia – Viterbo (Italy) PhD in Forest Ecology. Thesis: Analysis of the carbon cycle of steppe and old field ecosystems of Central Asia. Doctor of philosophy (PhD)
• Dates (from - to) • Name and type of organisation providing education and training • Principal subjects/occupational skills covered • Title of qualification awarded	October 1994 – April 2002 Faculty of Agricultural Sciences, University of Tuscia, Viterbo (Italy) Forest Sciences Laurea Degree with honors in Forest Sciences

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE
OTHER LANGUAGES

Italian
ENGLISH (PROFICIENT), RUSSIAN (UPPER-INTERMEDIATE), SPANISH (UPPER-INTERMEDIATE),

SCIENTIFIC SKILLS AND COMPETENCES

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

- Forest ecologist with 20 years professional experience specialized in: micrometeorology, greenhouse gas flux measurements (eddy covariance and chambers techniques) and data analysis, dendrometry, biogeochemistry, ecophysiology. Trained to work in multicultural environments and having very good communication, problem-solving and adaptation skills gained by participating in international research projects, also including field activities in remote areas.

RELEVANT ROLES AND
COMPETENCES

*Coordination and administration of
people, projects and budgets; at work, in
voluntary work (for example culture and
sports) and at home, etc.*

- Member of the Editorial Board of the journal Forests, ISSN: 1999-4907 (Section Forest Ecology and Management), December 2022 to date.
- Member of the Scientific Committee and Editor of the “Climate Change Constraints and Opportunities in the Asia-Pacific Region” international conference. October 2017, Vladivostok (Russia).
- Member of the Organizing Committee of the “Circum-Polar Arctic Flux Workshop” February 2017, Hyytiälä (Finland).
- Reviewer for the following peer reviewed journals: Biogeosciences, Hydrology and Earth System Sciences, Global Change Biology, Science of the Total Environment, Journal of Arid Environments, Agricultural and Forest Meteorology, Journal of Geophysical Research: Biogeosciences, Sustainability, Water, Forests, Plants, SN Applied Sciences, Regional Environmental Change, Diversity, Remote Sensing, Geoscientific Instrumentation, Methods and Data Systems, Applied System Innovation.

PUBLICATION INDEXES (SCOPUS)

- NUMBER OF PUBLICATIONS: 38
- TOTAL NUMBER OF CITATIONS: 1867
- H-INDEX: 23

PATENTS

- Industrial invention patent -102019000013362 (21/07/2021), Title: Device for the detection of the health status of one or more plants, Inventors (Belelli Marchesini L., Valentini R., Castaldi S., Rocchi A.), Italian Patent and Trademark Office (UIBM).

According to Regulation 679/2016 of the European Parliament of 27th April 2016, I hereby express my consent to process and use my personal data provided in this CV

Trento, 28 April 2023

Luca Belelli Marchesini



LIST OF PUBLICATIONS

of

Luca Belelli Marchesini

H index: (Scopus: 23; GoogleScholar: 27)
 Citations: (Scopus: 1867; GoogleScholar: 2844)
 Websites accessed on 28/04/2023.

SCIENTIFIC PUBLICATIONS

PEER REVIEWED PAPERS ON ISI INDEXED JOURNALS

1. Asgharinia, Shahla, Leberecht, Martin, **Belelli Marchesini, Luca**, Friess, Nicolas, Gianelle, Damiano, Nauss, Thomas, Opgenoorth, Lars, Yates, Jim, Valentini, Riccardo (2022). Towards continuous stem water content and sap flux density monitoring: IoT-based solution for detecting changes in stem water dynamics. *FORESTS*, vol. 13, ISSN: 1999-4907, doi: 10.3390/f13071040
2. Kalinchuk, Viktor, Yatsuk, Andrey, **Belelli Marchesini, Luca**, Lopatnikov, Evgeny, Nesterova, Olga, Valentini, Riccardo, Aksentov, Kirill (2022). The first simultaneous and continuous underway measurements of atmospheric gaseous elemental mercury, carbon dioxide and methane in the marine boundary layer: results of cruise study in the Sea of Japan in May 2018. *ATMOSPHERIC POLLUTION RESEARCH*, vol. 13, ISSN: 1309-1042, doi: 10.1016/j.apr.2022.101458
3. Lembrechts, Jonas J., Hoogen, Johan, Aalto, Juha, Ashcroft, Michael B., De Frenne, Pieter, Kemppinen, Julia, Kopecký, Martin, Luoto, Miska, Maclean, Ilya M. D., Crowther, Thomas W., Bailey, Joseph J., Haesen, Stef, Klimes, David H., Niittynen, Pekka, Scheffers, Brett R., Van Meerbeek, Koenraad, Aartsma, Peter, Abdalaze, Otari, Abedi, Mehdi, Aerts, Rien, Ahmadian, Negar, Ahrends, Antje, Alatalo, Juha M., Alexander, Jake M., Allonsius, Camille Nina, Altman, Jan, Ammann, Christof, Andres, Christian, Andrews, Christopher, Ardö, Jonas, et al. (2022). Global maps of soil temperature. *GLOBAL CHANGE BIOLOGY*, vol. 28, p. 3110-3144, ISSN: 1354-1013, doi: 10.1111/gcb.16060
4. Tomelleri, Enrico, **Belelli Marchesini, Luca**, Yaroslavtsev, Alexey, Asgharinia, Shahla, Valentini, Riccardo (2022). Toward a unified TreeTalker data curation process. *FORESTS*, vol. 13, ISSN: 1999-4907, doi: 10.3390/f13060855
5. Zona, Donatella, Lafleur, Peter M., Hufkens, Koen, Bailey, Barbara, Gioli, Beniamino, Burba, George, Goodrich, Jordan P., Liljedahl, Anna K., Euskirchen, Eugénie S., Watts, Jennifer D., Farina, Mary, Kimball, John S., Heimann, Martin, Göckede, Mathias, Pallandt, Martijn, Christensen, Torben R., Mastepanov, Mikhail, López-Blanco, Efrén, Jackowicz-Korczynski, Marcin, Dolman, Albertus J., **Marchesini, Luca Belelli**, Commane, Roisin, Wofsy, Steven C., Miller, Charles E., Lipson, David A., Hashemi, Josh, Arndt, Kyle A., Kutzbach, Lars, Holl, David, Boike, Julia, et al. (2022). Earlier snowmelt may lead to late season declines in plant productivity and carbon sequestration in Arctic tundra ecosystems. *SCIENTIFIC REPORTS*, vol. 12, ISSN: 2045-2322, doi: 10.1038/s41598-022-07561-1
6. Delwiche, Kyle B., Knox, Sara Helen, Malhotra, Avni, Fluet-Chouinard, Etienne, McNicol, Gavin, Feron, Sarah, Ouyang, Zutao, Papale, Dario, Trotta, Carlo, Canfora, Eleonora, Cheah, You-Wei, Christianson, Danielle, Alberto, M. Carmelita R., Alekseychik, Pavel, Aurela, Mika, Baldocchi, Dennis, Bansal, Sheel, Billesbach, David P., Bohrer, Gil, Bracho, Rosvel, Buchmann, Nina, Campbell, David I., Celis, Gerardo, Chen, Jiquan, Chen, Weinan, Chu, Housen, Dalmagro, Higo J., Dengel, Sigrid, Desai, Ankur R., Detto, Matteo, et al. (2021). FLUXNET-CH4: A global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. *EARTH SYSTEM SCIENCE DATA*, vol. 13, p. 3607-3689, ISSN: 1866-3508, doi: 10.5194/essd-13-3607-2021
7. Dean, Joshua F., Meisel, Ove H., Martyn Rosco, Melanie, **Belelli Marchesini, L.**, Garnett, Mark H., Lenderink, Henk, van Logtestijn, Richard, Borges, Alberto V., Bouillon, Steven, Lambert, Thibault, Röckmann, Thomas, Maximov, Trofim, Petrov, Roman, Karsanaev, Sergei, Aerts, Rien, van Huissteden, Jacobus, Vonk, Jorien E., Dolman, A. Johannes (2020). East Siberian Arctic inland waters emit mostly contemporary carbon. *NATURE COMMUNICATIONS*, vol. 11, ISSN: 2041-1723, doi: 10.1038/s41467-020-15511-6
8. Matasov, V., **Belelli Marchesini, L.**, Yaroslavtsev, A., Sala, G., Fareeva, O., Seregin, I., Castaldi, S., Vasenev, V., Valentini, R. (2020). IoT monitoring of urban tree ecosystem services: possibilities and challenges. *FORESTS*, vol. 11, ISSN: 1999-4907, doi: 10.3390/f11070775
9. Nelson, J. A., Pérez-Priego, O., Zhou, S., Poyatos, R., Zhang, Y., Blanken, P. D., Gimeno, T. E., Wohlfahrt, G., Desai, A. R., Gioli, B., Limousin, J. M., Bonal, D., Paul-Limoges, E., Scott, R. L., Varlagin, A., Fuchs, K., Montagnani, L., Wolf, S., Delpierre, N., Berveiller, D., Gharun, M., **Belelli Marchesini, L.**, Gianelle, D., Šigut, L., Mammarella, I., Siebicke, L., Andrew B. T., Knohl, A., Hörtnagl, L., Magliulo, V., et al. (2020). Ecosystem transpiration and evaporation: Insights from three water flux partitioning methods across FLUXNET sites. *GLOBAL CHANGE BIOLOGY*, vol. 26, p. 6916-6930, ISSN: 1354-1013, doi: 10.1111/gcb.15314
10. Pastorello, G., Trotta, C., Canfora, E., Chu, H., Christianson, D., Cheah, Y. W., Poindexter, C., Chen, J., Elbashandy, A., Humphrey, M., Isaac, P., Polidori, D., Ribeca, A., van Ingen, C., Zhang, L., Amiro, B., Ammann, C., Arain, M. A., Ardö, J., Arkebauer, T., Arndt,

- S. K., Arriga, N., Aubinet, M., Aurela, M., Baldocchi, D., Barr, A., Beamesderfer, E., **Belelli Marchesini, L.**, Bergeron, O., Beringer, J., et al. (2020). The FLUXNET2015 dataset and the ONEFlux processing pipeline for eddy covariance data. *SCIENTIFIC DATA*, vol. 7, ISSN: 2052-4463, doi: 10.1038/s41597-020-0534-3
11. Ueyama, M., Ichii, K., Kobayashi, H., Kumagai, T., Beringer, J., Merbold, L., Euskirchen, E. S., Hirano, T., **Belelli Marchesini, L.**, Baldocchi, D., Saitoh, T. M., Mizoguchi, Y., Ono, K., Kim, J., Varlagin, A., Kang, M., Shimizu, T., Kosugi, Y., Bret-Harte, M. S., Machimura, T., Matsuura, Y., Ohta, T., Takagi, K., Takanashi, S., Yasuda, Y. (2020). Inferring CO₂ fertilization effect based on global monitoring land-atmosphere exchange with a theoretical model. *ENVIRONMENTAL RESEARCH LETTERS*, vol. 15, ISSN: 1748-9326, doi: 10.1088/1748-9326/ab79e5
 12. Valentini, R.; **Belelli Marchesini, L.**; Gianelle, D.; Sala, G.; Yaroslavtsev, A.; Vasenev, V.; Castaldi, S. (2019). New tree monitoring systems: from Industry 4.0 to Nature 4.0. *Annals of Silvicultural Research*, 43 (2): 84-88, ISSN: 2284-354X, doi: 10.12899/asr-1847 handle: <http://hdl.handle.net/10449/58628>
 13. Peaucelle, M.; Bacour, C.; Ciais, P.; Vuichard, N.; Kuppel, S.; Peñuelas, J.; **Belelli Marchesini, L.**; Blanken, P.D.; Buchmann, N.; Chen, J.; Delpierre, N.; Desai, A.R.; Dufrene, E.; Gianelle, D.; Gimeno-Colera, C.; Gruening, C.; Helfter, C.; Hörtnagl, L.; Ibrom, A.; Joffre, R.; Kato, T.; Kolb, T.E.; Law, B.; Lindroth, A.; Mammarella, I.; Merbold, L.; Minerbi, S.; Montagnani, L.; Šigut, L.; Sutton, M.; Varlagin, A.; Vesala, T.; Wohlfahrt, G.; Wolf, S.; Yakir, D.; Viovy, N. (2019). Covariations between plant functional traits emerge from constraining parameterization of a terrestrial biosphere model. *Global Ecology and Biogeography*, 28 (9): 1351-1365. doi: 10.1111/geb.12937 handle: <http://hdl.handle.net/10449/56886>
 14. S. Chadburn, G. Krinner, P. Porada, A. Bartsch, C. Beer, **L. Belelli Marchesini**, J. Boike, C. Brutel-Vuilmet, A. Ekici, B. Elberling, G. Hugelius, M. Johansson, P. Kuhry, L. Kutzbach, M. Langer, F. Parmentier, J. Van Huissteden, T. Wang, S. Westermann, and E. Burke (2017). Carbon stocks and fluxes in the high latitudes: Using site-level data to evaluate Earth system models. *Biogeosciences* Vol. 14, Iss. 22: 5143-5169, doi: 10.5194/bg-14-5143-2017.
 15. K. Ichii, M. Ueyama, M. Kondo, N. Saigusa, J. Kim, M.C. Alberto, J. Ardö, E. Euskirchen, M. Kang, T. Hirano, J. Joiner, H. Kobayashi, **L. Belelli Marchesini**, L. Merbold, A. Miyata, T. Saitoh, K. Takagi, A. Varlagin, M.S. Bret-Harte, K. Kitamura, Y. Kosugi, A. Kotani, K. Kumar, S-G. Li, T. Machimura, Y. Matsuura, Y. Mizoguchi, T. Ohta, S. Mukherjee, Y. Yanagi, Y. Yasuda, Y. Zhang and F. Zhao (2017). New data-driven estimation of terrestrial CO₂ fluxes in Asia using a standardized database of eddy covariance measurements, remote sensing data, and support vector regression. *Journal of Geophysical Research – Biogeosciences*, 122, doi:10.1002/2016JG003640.
 16. O. Peltola, A. Hensen, **L. Belelli Marchesini**, C. Helfter, F.C. Bosveld, W. C. M. van den Bulk, S. Haapanala, J. van Huissteden, T. Laurila, A. Lindroth, E. Nemitz, T. Röckmann, A.T. Vermeulen and I. Mammarella (2015). Studying the spatial variability of methane flux with five eddy covariance towers of varying height. *Agricultural and Forest Meteorology* 214, 456-472, doi:10.1016/j.agrformet.2015.09.007.
 17. N. M. Tchebakova, N. N. Vygodskaya, A. Arneth, **L. Belelli Marchesini**, O. Kolle, Yu. A. Kurbatova, E. I. Parfenova, R. Valentini, E. A. Vaganov, and E.D. Schulze (2015). Energy and Mass Exchange and the Productivity of the Main Ecosystems of Siberia (From Eddy Covariance Measurements). 2. Carbon fluxes and productivity. *Biology Bulletin*. 42(6), 579-588, doi: 10.1134/S1062359015660024.
 18. N. M. Tchebakova, N. N. Vygodskaya, A. Arneth, **L. Belelli Marchesini**, O. Kolle, Yu. A. Kurbatova, E. I. Parfenova, R. Valentini, E. A. Vaganov, and E.D. Schulze (2015). Energy and Mass Exchange and the Productivity of the Main Ecosystems of Siberia (From Eddy Covariance Measurements). 1. Heat Balance Structure in the Vegetation Season. *Biology Bulletin*, 42(6), 570-578, doi: 10.1134/S1062359015660012.
 19. Metzger, C., Jansson, P.-E., Lohila, A., Aurela, M., Eickenscheidt, T., **Belelli-Marchesini, L.**, Dinsmore, K. J., Drewer, J., van Huissteden, J., and Drösler, M (2015). CO₂ fluxes and ecosystem dynamics at five European treeless peatlands – merging data and process oriented modeling, *Biogeosciences*, 12, 125-146, doi:10.5194/bg-12-125-2015.
 20. Alberti G, Vicca S, Inghima I, **Belelli-Marchesini L**, Genesio L, Miglietta F, Marjanovic H, Martinez C, Matteucci G, D'Andrea E, Peressotti A, Petrella F, Rodeghiero M, Cotrufo MF (2015). Soil C:N stoichiometry controls carbon sink partitioning between above-ground tree biomass and soil organic matter in high fertility forests. *iForest - Biogeosciences and Forestry*, vol. 8, pp 195-206, doi: 10.3832/for1196-008.
 21. Budishchev, A., Mi, Y., van Huissteden, J., **Belelli-Marchesini, L.**, Schaepman-Strub, G., Parmentier, F. J. W., Fratini, G., Gallagher, A., Maximov, T. C., and Dolman, A. J (2014).: Evaluation of a plot-scale methane emission model using eddy covariance observations and footprint modelling, *Biogeosciences*, 11, 4651-4664, doi:10.5194/bg-11-4651-2014.
 22. J. Joiner, Y. Yoshida, A.P. Vasilkov, K. Schaefer, M. Jung, L. Guanter, Y. Zhang, S. Garrity, E.M. Middleton, K.F. Huemmrich, L. Gu, **L. Belelli Marchesini** (2014) The seasonal cycle of satellite chlorophyll fluorescence observations and its relationship to vegetation phenology and ecosystem atmosphere carbon exchange, *Remote Sensing of Environment*, Volume 152, September 2014, Pages 375-391, ISSN 0034-4257, <http://dx.doi.org/10.1016/j.rse.2014.06.022>.
 23. O. Peltola, A. Hensen, C. Helfter, **L. Belelli Marchesini**, F. Bosveld, W. C. M. van den Bulk, J. Elbers, S. Haapanala, J. Holst, T. Laurila, A. Lindroth, E. Nemitz, T. Röckmann, A. Vermeulen and I. Mammarella (2014). Evaluating the performance of commonly used gas analyzers for methane eddy covariance flux measurements: the InGOS intercomparison field experiment. *Biogeosciences*, 11, 3163-3186, doi:10.5194/bg-11-3163-2014.

24. V. Kasurinen, F. Berninger, K. Alfredsen, P. Kolari, I. Mammarella, P. Alekseychik, T. Vesala, P. Bernier, J. Boike, **L. Beilelli Marchesini**, T. Sachs, M. Langer, T. Ohta, F. Berninger (2014). Modeling latent heat exchange in the boreal and arctic biomes. *Global Change Biology*, vol. 20, 11, 3439-3456, DOI:10.1111/gcb.12640.
25. Rey A., **Beilelli Marchesini L**, Etiope G., Papale D., Canfora E., Valentini R., Pegoraro E. (2014). Partitioning the net ecosystem carbon balance of a semiarid steppe into biological and geological components. *BIOGEOCHEMISTRY*, vol. 118, p. 83-101, ISSN: 0168-2563, doi: 10.1007/s10533-013-9907-4.
26. N. M. Tchebakova, N. N. Vygodskaya, A. Arneth, **L. Beilelli Marchesini**, O. Kolle, Yu. A. Kurbatova, E. I. Parfenova, R. Valentini, E. A. Vaganov, and E.D. Schulze (2014). Energy and Mass Exchange and the Productivity of the Main Ecosystems of Siberia (From Eddy Covariance Measurements). 2. Carbon fluxes and productivity. *ИЗВЕСТИЯ РАН. СЕРИЯ БИОЛОГИЧЕСКАЯ (Izvestiya Rossiiskoi Akademii Nauk – Seriya Biologicheskaya)* 2014, № 1, p. 65–75. ISSN: 0002-3329, DOI: 10.7868/S0002332914010044.
27. N. M. Tchebakova, N. N. Vygodskaya, A. Arneth, **L. Beilelli Marchesini**, O. Kolle, Yu. A. Kurbatova, E. I. Parfenova, R. Valentini, E. A. Vaganov, and E.D. Schulze (2013). Energy and Mass Exchange and the Productivity of the Main Ecosystems of Siberia (From Eddy Covariance Measurements). 1. Heat Balance Structure in the Vegetation Season. *ИЗВЕСТИЯ РАН. СЕРИЯ БИОЛОГИЧЕСКАЯ (Izvestiya Rossiiskoi Akademii Nauk – Seriya Biologicheskaya)* 2013, № 6, p. 728–737. ISSN: 0002-3329, DOI: 10.7868/S0002332913060039.
28. Dolman AJ, Shvidenko A, Schepaschenko D, Ciais P, Tchebakova N, Chen T, van der Molen MK, **Beilelli Marchesini L**, Maximov TC, Maksyutov S, Schulze E-D (2012). An estimate of the terrestrial carbon budget of Russia using inventory-based, eddy covariance and inversion methods. *BIOGEOSCIENCES*, vol. 9, p. 5323-5340, ISSN: 1726-4170, doi: doi:10.5194/bg-9-5323-2012.
29. Rey A, Etiope G, **Beilelli Marchesini L**, Papale D, Valentini R (2012). Geologic carbon sources may confound ecosystem carbon balance estimates: Evidence from a semiarid steppe in the southeast of Spain. *JOURNAL OF GEOPHYSICAL RESEARCH. BIOGEOSCIENCES*, vol. 117, ISSN: 0148-0227, doi: 10.1029/2012JG001991.
30. Rey, **L. Beilelli Marchesini**, A. Were, P. Serrano, G. Etiope, E. Pegoraro, F. Domingo, D. Papale (2011) Wind as the main driver of ecosystem carbon exchange in a semi-arid alpha grass steppe in the South East of Spain. *Global Change Biology*, vol. 18, 2, 539-554. DOI: 10.1111/j.1365-2486.2011.02534.x.
31. Yuan, W., Y. Luo, X. Li, S. Liu, G. Yu, T. Zhou, M. Bahn, A. Black, A. R. Desai, A. Cescatti, B. Marcolla, C. Jacobs, J. Chen, M. Aurela, C. Bernhofer, B. Gielen, G. Bohrer, D. R. Cook, D. Dragoni, A. L. Dunn, Damiano Gianelle, Thomas Grünwald, Andreas Ibrom, Monique Y. Leclerc, A. Lindroth, H. Liu, **L. Beilelli Marchesini**, L. Montagnani, G. Pita, M. Rodeghiero, A. Rodrigues, G. Starr, and P. C. Stoy (2011) Redefinition and global estimation of basal ecosystem respiration rate, *Global Biogeochem. Cycles*, 25, GB4002, doi:10.1029/2011GB004150.
32. Gilmanov T.G, L. Aires, Z. Barcza, V. S. Baron, **L. Beilelli**, J. Beringer, D. Billesbach, D. Bonal, J. Bradford, E. Ceschia, D. Cook, C. Corradi, A. Frank, D. Gianelle, C. Gimeno T., Gruenwald, Haiqiang Guo, N. Hanan, L. Haszpra, J. Heilman A. Jacobs, M. B. Jones, D. A. Johnson, G. Kiely, Shengong Li, V. Magliulo E. Moors, Z. Nagy, M. Nasyrov, C. Owensby, K. Pinter, C. Pio, M. Reichstein, M. J. Sanz, R. Scott, J. F. Soussana, P. C. Stoy, T. Svejcar, Z. Tuba, and Guangsheng Zhou (2010), Productivity, Respiration, and Light-Response Parameters of World Grassland and Agroecosystems Derived From Flux-Tower Measurements, *Rangeland Ecology and Management* 63:16–39 DOI: 10.2111/REM-D-09-00072.1
33. N. Vuichard, P. Ciais, **L. Beilelli Marchesini**, P. Smith, and R. Valentini (2010). On the Ability of the ORCHIDEE Global Vegetation Model to Simulate Carbon and Water Fluxes of a Southern Siberian Steppe, *Rangeland Ecology and Management* 63:51–61 DOI: 10.2111/REM-D-09-00028.1
34. Vuichard, N., P. Ciais, **L. Beilelli**, P. Smith, and R. Valentini (2008), Carbon sequestration due to the abandonment of agriculture in the former USSR since 1990, *Global Biogeochem. Cycles*, 22, GB4018, doi:10.1029/2008GB003212.
35. **L. Beilelli Marchesini**, D. Papale, M. Reichstein, N. Vuichard, N. Tchebakova, R. Valentini (2007). Carbon balance assessment of a natural steppe of southern Siberia by multiple constraint approach. *Biogeosciences*, 4, 581-595.
36. M. Meroni, D. Mollicone, **L. Beilelli**, G. Manca, S. Rosellini, S. Stivanello, G. Tirone, R. Zompanti, N. Tchebakova, E.D. Schulze, R. Valentini (2002). Carbon and water exchanges of regenerating forests in central Siberia, *Forest Ecology and Management* 169: 115-122.
37. D. Mollicone, F. Achard, **L. Beilelli Marchesini**, S. Federici, C. Wirth, S. Rosellini, E. D. Schulze, R. Valentini (2002). A new remote sensing based approach to determine forest fire cycle: Case study of the central Siberia Abies dominated taiga. *Tellus series B*, Vol 54 /5: 688-695.
38. C. Röser, L. Montagnani, O. Kolle, M. Meroni, D. Mollicone, D. Papale, **L. Beilelli Marchesini**, S. Federici, E.D. Schulze, R. Valentini (2002). CO₂-exchange rates of three differently successional stages of the Dark Taiga of Central Siberia. *Tellus series B*, Vol 54 /5: 642-654.

BOOK CHAPTERS

39. Tognetti, Roberto, Valentini, Riccardo, **Beilelli Marchesini, Luca**, Gianelle, Damiano, Panzacchi, Pietro, Marshall, John D. (2022). Continuous monitoring of tree responses to climate change for smart forestry: a cybernetic web of trees. In: (a cura di): Tognetti R.; Smith M.; Panzacchi P., *Climate-Smart Forestry in Mountain Regions. MANAGING FOREST ECOSYSTEMS*, p. 361-398, Springer, ISBN: 9783030807665, ISSN: 1568-1319, doi: 10.1007/978-3-030-80767-2_10
40. Dario Papale, Mirco Migliavacca, Edoardo Cremonese, Alessandro Cescatti, Giorgio Alberti, Manuela Balzarolo, **Luca Beilelli Marchesini**, Eleonora Canfora, Raffaele Casa, Pierpaolo Duce, Osvaldo Facini, Marta Galvagno, Lorenzo Genesio, Damiano Gianelle, Vincenzo Magliulo, Giorgio Matteucci, Leonardo Montagnani, Fabio Petrella, Andrea Pitacco, Guenther Seufert, Donatella Spano, Paolo Stefani, Francesco P Vaccari, Riccardo Valentini (2015). Carbon Water and Energy Fluxes of Terrestrial Ecosystems in Italy, in *The Greenhouse Gas Balance of Italy* Springer-Verlag (R. Valentini & F. Miglietta eds.), pp11-45, Environmental Science and Engineering, DOI:10.1007/978-3-642-32424-6_2.
41. **L. Beilelli Marchesini** (2012), Can freedom help to tackle global climate warming? A view from biogeochemical research. In S. Giordano, J.Coggon, M.Cappato (Eds.) *Scientific freedom*, Bloomsbury Academic. DOI:10.5040/9781849669009.
42. Pavel Ya. Groisman, Tatiana A. Blyakharchuk, Alexander V. Chernokulsky, Maksim M. Arzhanov, **Luca Beilelli Marchesini**, Esfir G. Bogdanova, Irena I. Borzenkova, Olga N. Bulygina, Andrey A. Karpenko, Lyudmila V. Karpenko, Richard W. Knight, Vyacheslav Ch. Khon, Georgiy N. Korovin, Anna V. Meshcherskaya, Igor I. Mokhov, Elena I. Parfenova, Vyacheslav N. Razuvaev, Nina A. Speranskaya, Nadezhda M. Tchebakova, Natalia N. Vygodskaya. (2013) Climate changes in Siberia, in "Environmental Changes in Siberia: Regional Changes and their Global Consequences", Editors: Pavel Groisman and Garik Gutman, p 57-109, Springer Environmental Science and Engineering. ISBN: 978-94-007-4568-1 (Print) 978-94-007-4569-8 (Online) DOI:10.1007/978-94-007-4569-8_3.
43. Anatoly Shvidenko, Eric Gustafson, David McGuire, Vjacheslav Kharuk, Dmitry Schepaschenko, Henk Shugart, Nadezhda Tchebakova, Natalia Vygodskaya, Alexander Onuchin, Daniel Hayes, Ian McCallum, Shamil Maksyutov, Ludmila Mukhortova, Amber Soya, **Luca Beilelli-Marchesini**, Julia Kurbatova, Alexander Oltchev, Elena Parfenova, Shuman, J.K. (2013) Terrestrial ecosystems and their change, in "Environmental Changes in Siberia: Regional Changes and their Global Consequences", Editors: Pavel Groisman and Garik Gutman, p 171-249 Environmental Science and Engineering. ISBN: 978-94-007-4568-1 (Print) 978-94-007-4569-8 (Online) DOI:10.1007/978-94-007-4569-8_6.

TECHNICAL REPORTS

44. **Beilelli Marchesini L.**, Bombelli A., Chiti T., Consalvo C., Forgiione A., Grieco E., Mazzenga F., Papale D., Stefani P., Vittorini E., Zompanti R., and Valentini R (2011) Ankasa flux tower: a new research facility for the study of the carbon cycle in a primary tropical forest in Africa. in Bombelli A., Valentini R. (Eds.), 2011. in *Africa and the Carbon Cycle*. World Soil Resources Reports No. 105. FAO, Rome, p 13-22. ISBN 978-92-5-106887-8.
45. V. Avitabile, **L. Beilelli Marchesini**, H. Balzter, M. Bernoux, A. Bombelli, R. Hall, M.Henry, B.E. Law, R. Manlay, L. G. Marklund and Y. E.Shimabukuro. Assessment of the status of the development of standards for the Terrestrial Essential Climate Variables–Biomass (ECV-T12). GTOS - FAO, Rome, 2009. (<http://www.fao.org/GTOS/doc/ECVs/T12/GTOS-ECV-biomass-v08.pdf>)

CONFERENCE PROCEEDINGS

46. Shaukat, S., Sabbatini, S., Nicolini, G., and Papale, D. and the ICOS-PIs (Antje Maria Moffat, **Luca Beilelli Marchesini**, Bernard Heinesch, Daniel Berveiller, Christian Brummer, Aurore Brut, Christophe Chipeaux, Alexander Graf, Radek Czerný, Thomas Grünwald, Lukas Hörtnagl, Anne Klosterhalfen, Sébastien Lafont, Leonardo Montagnani, Tanguy Manise, Virginie Moreaux, Matthias Peichl, Frederik Schrader, Tiphaine Tallec, Ivan Mammarella, Pasi Kolari): Standardization of Eddy Covariance Measurements: Role of Setup, Calculation and Filtering in Parallel and Long-term datasets , EGU General Assembly 2023, Vienna, Austria, 24–28 Apr 2023, EGU23-16593, <https://doi.org/10.5194/egusphere-egu23-16593>, 2023. (poster presentation)
47. Yates, J.; **Beilelli Marchesini, L.**; Renzi, F.; Valentini, R. (2022). Exploring novel dendrometers: an IoT application for simultaneous and in situ monitoring of tree stem growth increment. In: AGU Fall Meeting 2022, Chicago, ILL, 12-16 December 2022. url: <https://agu.confex.com/agu/fm22/meetingapp.cgi/Paper/1186487> handle: <https://hdl.handle.net/10449/77756>. (oral presentation)
48. Papale, D.; Shaukat, S.; Sabbatini, S.; Nicolini, G.; Moffat, A.M.; **Beilelli Marchesini, L.**; Heinesch, B.; Berveiller, D.; Brummer, C.; Brut, A.; Chipeaux, C.; Czerný, R.; Graf, A.; Grünwald, T.; Hörtnagl, L.K.; Klosterhalfen, A.; Lafont, S.; Manise, T.; Montagnani, L.; Moreaux, V.; Peichl, M.; Schrader, F.; Tallec, T. (2022). Standardization of Eddy Covariance Measurements: role of setup, calculation and filtering. In: AGU Fall Meeting 2022, Chicago, ILL, 12-16 December 2022. url: <https://agu.confex.com/agu/fm22/meetingapp.cgi/Paper/1144843> handle: <https://hdl.handle.net/10449/77757>. (poster presentation)
49. Tomelleri, E.; Da Ros, L.; Torresani, M.; **Beilelli Marchesini, L.**; Gianelle, D.; Valentini, R. (2022). Can smartphone photography support the deployment of TreeTalker-based below canopy spectroscopy?. In: ForestSAT 2022, Berlin, Germany, August 29-September 3, 2022. <https://www.conftool.org/forestsat2022/index.php> ; handle: <https://hdl.handle.net/10449/77758>. (poster presentation)

50. **Beileli Marchesini, L.**, Valentini, R., Frizzera, L., Cavagna, M., Chini, I., Zampedri, R., Gianelle, D. (2020). Impact of climate anomalies on the functionality of beech trees in a mixed forest in the Italian south-eastern Alps. In: EGU General Assembly 2020. on-line, 4-8 May 2020, doi: <https://doi.org/10.5194/egusphere-egu2020-17762>. (oral presentation)
51. Castaldi, S., Antonucci, S., Asgharina, S., Battipaglia, G., **Beileli Marchesini, L.**, Cavagna, M., Chini, I., Coccozza, C., Gianelle, D., La Mantia, T., Motisi, A., Niccoli, F., Pacheco Solana, A., Sala, G., Santopoli, G., Tonon, et al. (2020). The Italian TREETALKER NETWORK (ITT-Net): continuous large scale monitoring of tree functional traits and vulnerabilities to climate change. In: EGU General Assembly 2020. on-line, 4-8 May 2020, doi: <http://dx.doi.org/10.5194/egusphere-egu2020-20591>. (poster presentation)
52. Dean, J., Meisel, O., Martyn Roscoe, M., **Beileli Marchesini, L.**, Garnett, M., Lenderink, H., van Logtestijn, R., Borges, A., Bouillon, S., Lambert, T., Röckmann, T., Maximov, T., Petrov, R., Karsanaev, S., Aerts, R., van Huissteden, et al. (2020). Siberian Arctic inland waters emit mostly contemporary carbon. In: EGU General Assembly 2020. on-line, 4-8 May 2020, doi: <http://dx.doi.org/10.5194/egusphere-egu2020-17416>. (oral presentation)
53. Dolman, H., van Huissteden, J., Dean, J., Maximov, T., Petrov, R., **Beileli Marchesini, L.** (2020). The carbon budget of a tundra in the north-eastern Russian Arctic during the snow free season and its stability in the 2003-2016 period. In: EGU General Assembly 2020. on-line, 4-8 May 2020, doi: <http://dx.doi.org/10.5194/egusphere-egu2020-19337>. (oral presentation)
54. Falocchi, M., Giovannini, L., **Beileli Marchesini, L.**, Gianelle, D., Montagnani, L., Zardi, D. (2020). The estimate and scaling of mass and energy fluxes from three different ecosystems in the Trentino Alto Adige/South Tyrol (Italy) region: Preliminary results from the Wheat Project. In: EGU General Assembly 2020, online, 4-8 May 2020. Online, 4-8 May 2020, doi: 10.5194/egusphere-egu2020-18022. (oral presentation)
55. Mauder, M., Johnson, D., Fratini, G., Berveiller, D., Brut, A., Kumar Deb Burman, P., Carrara, A., Chakraborty, S., Chen, K. Y., Drollinger, S., Fischer, M., Griebel, A., Jain, A. K., Jocher, G., Kljun, N., Klosterhalfen, A., Kowalska, N., Laudon, H., **Beileli Marchesini, L.**, Mammarella, I., Metzen, D., Montagnani, L., Nair, S. K., Nilsson, M., Normets, A., Orsag, M., Pavelka, M., Peichl, M., Pendall, E., Prajapati, P., et al. (2020). Evaluation of energy balance closure correction methods for multiple eddy-covariance sites in different biomes. In: EGU General Assembly 2020, online, 4-8 May 2020. Online, 4-8 May 2020, doi: 10.5194/egusphere-egu2020-9319. (oral presentation)
56. Sala, G.; **Beileli Marchesini, L.**; Vasenev, V.I.; Yarovslavtsev, A.; Valentini, R. (2019). Impacts of urban environment on the eco-physiological responses of trees: Tree-Talker (TT) new devices for the monitoring of trees. In: XII Congresso Nazionale SISEF "La scienza utile per le foreste: ricerca e trasferimento", Palermo, 12-15 novembre 2019: 125. url: https://congressi.sisef.org/xii-congresso/materiale/2019_11_02_xii_sisef_abstractbook_orals_final.pdf ; handle: <http://hdl.handle.net/10449/58907>. (oral presentation)
57. **Beileli Marchesini, L.**; Korovitckii, S.; Tregubova, V.; Castaldi, S.; Nesterova, O. Soil CO₂ and CH₄ fluxes under different land cover types of a university campus area in Vladivostok (Russia). Geophysical Research Abstracts, Vol.21, EGU2019-17277. (oral presentation)
58. **L. Beileli Marchesini**, S. Korovitckii, A. Totskaya, D. Sherstnev and V. Tregubova. Soil greenhouse gas fluxes of natural and artificial land cover types within the FEFU campus area on Russky Island (Vladivostok, Russia) in "Climate Change Constraints and Opportunities in the Asia-Pacific Region: Human-Biosphere-Atmosphere Interactions and Green Growth", October 24–26, 2017, Vladivostok, Russia. Vladivostok: BGI FEB RAS, 2017. 60 pp. Editors: Pavel V. Krestov & Luca Beileli Marchesini. http://geobotanica.ru/symposium_2017/abstract_book_2017.pdf (oral presentation)
59. Russo A. Ignatieva M., Cirella G.T., **Beileli Marchesini L.**, Krestov P., Korzhov E., Kalita V., Pavlovsky V., Escobedo F.J. Biophilia: Nature-based solutions for sustainable cities. ICON-LA 2017 Conference "The three pillars of landscape architecture: design, planning and management. New visions.", 7-9 June 2017, St. Petersburg (Russia), pp105-112, ISBN 978-5-7422-5780-6. (oral presentation)
60. Van Huissteden, J., Heijmans M., Dean J., Meisel O., Goovaerts A., Parmentier F.-J., Schaepman-Strub G., **Beileli Marchesini L.**, Kononov A., Maximov T., Borges, A. and Bouillon S. Thaw ponds dynamics and carbon emissions in a Siberian lowland tundra landscape. Geophysical Research Abstracts, Vol. 19, EGU2017-5661, 2017. (oral presentation)
61. Dean J., **Beileli Marchesini L.**, van Huissteden J., Meisel O., Dolman A.J. Terrestrial climate feedbacks and the role of inland waters in the Eastern Siberian Arctic tundra. Proceedings of the IXth International Symposium "C/H₂O/energy balance and climate over the boreal and arctic regions with special emphasis on eastern Eurasia" 1-4 November 2016, Yakutsk, Russia. Nagoya University Publishing House – 2016 – pp 49-51. (oral presentation)
62. **Beileli Marchesini L.**, Wille C., Parmentier F.-J., Goeckede M., van Huissteden J., Dolman H., Aurela M., Boike J., Christensen T., Friborg T., Laurila T., Lund M., Jammot M., Kutzbach L., Maximov T.Chr., Sachs T., Shurpali N., Kuhry P. Inter-site variability and drivers of the carbon budget of Eurasian Arctic sites from eddy covariance GHG flux monitoring. Proceedings of the IXth International Symposium "C/H₂O/energy balance and climate over the boreal and arctic regions with special emphasis on eastern Eurasia" 1-4 November 2016, Yakutsk, Russia. Nagoya University Publishing House – 2016 – pp160-162. (oral presentation)
63. **L. Beileli Marchesini**, J. van Huissteden, M. van der Molen, F.-J. W. Parmentier, T. Maximov, A. Budishchev, & H. Dolman. Inter-annual variability and drivers of the carbon balance of a northeast Siberian tundra, in Günther, F. and Morgenstern, A. (Eds.) (2016): XI. International Conference On Permafrost – Book of Abstracts, 20 – 24 June 2016, Potsdam, Germany. Bibliothek Wissenschaftspark Albert Einstein, pp. 273-274, doi:10.2312/GFZ.LIS.2016.001 (poster presentation)

64. **L. Belelli Marchesini**, C. Wille, F.-J. W. Parmentier, M. Goeckede, J. van Huissteden, H. Dolman, M. Aurela, J. Boike, T. Christensen, T. Friborg, T. Laurila, M. Lund, M. Jammet, L. Kutzbach, T. Maximov, T. Sachs, & N. Shurpali. The carbon budget of Eurasian Arctic sites: a synthesis from the PAGE21 flux network, Günther, F. and Morgenstern, A. (Eds.) (2016): XI. International Conference On Permafrost – Book of Abstracts, 20 – 24 June 2016, Potsdam, Germany. Bibliothek Wissenschaftspark Albert Einstein, pp. 275-276, doi:10.2312/GFZ.LIS.2016.001 (oral presentation)
65. S. Chadburn, E. Burke, A. Ekici, C. Beer, P. Porada, G. Krinner, T. Wang, C. Brutel-Vuilmet, **L. Belelli**, K. Van Huissteden, L. Kutzbach, G. Hugelius, J. Boike, M. Langer, B. Elberling, M. Johansson, & S. Westermann. Carbon stocks and fluxes in the high-latitudes: Using site-level data to evaluate earth system models, in Günther, F. and Morgenstern, A. (Eds.) (2016): XI. International Conference On Permafrost – Book of Abstracts, 20 – 24 June 2016, Potsdam, Germany. Bibliothek Wissenschaftspark Albert Einstein, pp. 279-280, doi:10.2312/GFZ.LIS.2016.001 (oral presentation)
66. M. Goeckede, K. Luus, T. Sachs, L. Kutzbach, M. Aurela, **L. Belelli Marchesini**, E. Euskirchen, K. van Huissteden, & A. Serafimovich. Upscaling of high-latitude CO₂ fluxes in NE Siberia based on a satellite data-driven model, in Günther, F. and Morgenstern, A. (Eds.) (2016): XI. International Conference On Permafrost – Book of Abstracts, 20 – 24 June 2016, Potsdam, Germany. Bibliothek Wissenschaftspark Albert Einstein, pp. 283-284, doi:10.2312/GFZ.LIS.2016.001 (poster presentation)
67. A Rey, **L. Belelli-Marchesini**, G. Etiope, D. Papale. Biological and geological carbon sources in a steppe ecosystem in the SE of Spain EGU 2015 General Assembly Conference Abstracts 17, 6908 (oral presentation)
68. J. Ko van Huissteden, Yanjiao Mi, Artem Budishchev, Angela Gallagher, **Luca Belelli-Marchesini**, A.J. Dolman. Process-based modeling of northern wetland methane emissions-what are the limits? EGU 2015 General Assembly Conference Abstracts 17, 10085 (oral presentation)
69. **Luca Belelli Marchesini**, Jacobus van Huissteden, Michiel van der Molen, Frans-Jan W. Parmentier, Trofim Maximov, Artem Budishchev, Angela Gallagher, Albertus J. Dolman. How is climate warming altering the carbon cycle of a tundra ecosystem in the Siberian Arctic? EGU 2015 General Assembly Conference Abstracts 17, 9429. (poster presentation)
70. **L. Belelli Marchesini**, J. van Huissteden, A. Budishchev, M. van der Molen, F.-J. Parmentier, A. Gallagher, T. Maximov and H. Dolman. Persistent negative feedback to climate warming of a graminoid tussock tundra in north-eastern Siberia. Proceedings of the 1st ICOS Conference on Greenhouse Gases and Biogeochemical Cycles, Brussels, 23-25 September 2014, p15. (poster presentation)
71. **L. Belelli Marchesini**, J. Van Huissteden, A. Budishchev, A. Gallagher, Y.J. Mi, T. Maximov, R. Petrov and H. Dolman. Net Ecosystem Carbon Balance of a tundra ecosystem in the NE Siberian Arctic. EUCOP 4 Book of Abstracts, p 418. University of Lisbon and University of Evora, June 2014. (oral presentation)
72. Metzger, C., Jansson, P.-E., Lohila, A., Aurela, M., Eickenscheidt, T., **Belelli-Marchesini, L.**, Dinsmore, K. J., Drewer, J., van Huissteden, J., and Drösler, M.: Difference in explanations of CO₂ flux and ecosystem dynamics between five European open peatlands – Merging data and process oriented modelling. Geophysical Research Abstracts Vol. 16, EGU2014-14450, 2014. EGU General Assembly 2014. (oral presentation)
73. O. Peltola, A. Hensen, C. Helfter, **L. Belelli Marchesini**, S. Haapanala, F. Bosveld, W. C. M. Van Den Bulk, T. R. Ockmann, T. Laurila, A., Vermeulen, E. Nemitz And I. Mammarella. Measurements of methane emissions on multiple scales in an agricultural landscape- Proceedings of FCoE in 'Physics, Chemistry, Biology and Meteorology of Atmospheric Composition and Climate Change' Annual Meeting 2013, REPORT SERIES IN AEROSOL SCIENCE N:o 142 (2013), pp 454-458, ISSN 0784-3496 ISBN 978-952-5822-75-5 (poster presentation)
74. Ko J. van Huissteden, Angela Gallagher, Artem Budishchev, Ben van Kester, **Luca Belelli-Marchesini**. Rapid thaw pond formation in Northeast Siberia transfers permafrost carbon to the atmosphere. American Geophysical Union Fall Meeting (San Francisco, Dec. 9-13), Eos Trans., Abstract B12D-02, 2013. (oral presentation)
75. Dario Papale, Ana Rey, **Luca Belelli-Marchesini**, Giuseppe Etiope, Emiliano Pegoraro. Effect of geological carbon sources on eddy covariance measurements: analysis and possible correction approaches. American Geophysical Union Fall Meeting (San Francisco, Dec. 9-13), Eos Trans., Abstract, B12A-07, 2013. (oral presentation)
76. M. Francesca Cotrufo; Giorgio Alberti; Sara Vicca; Ilaria Inglema; **Luca Belelli-Marchesini**; Lorenzo Genesio; Franco Miglietta; Hrvoje Marjanovic; Cristina Martinez; Giorgio Matteucci; Alessandro Peressotti; Luca Petrella; Mirco Rodeghiero. Soil C:N stoichiometry controls carbon sink partitioning between above-ground tree productivity and soil organic matter in high fertility forests. American Geophysical Union Fall Meeting (San Francisco, Dec. 9-13), Eos Trans., Abstract B21A-0476, 2013. (poster presentation)
77. Peltola O, Hensen A, Helfter C, **Belelli Marchesini L**, Mammarella I, Haapanala S, Holst J, Elbers J, Bosveld F, van den Bulk P, Röckmann T, Lindroth A, Laurila T, Vermeulen A, Nemitz E (2013). Intercomparison of eight state-of-the-art eddy covariance methane gas analysers. GEOPHYSICAL RESEARCH ABSTRACTS, vol. 15, ISSN: 1029-7006 (oral presentation)
78. van der Molen M, de Jeu R, **Belelli Marchesini L**, Peters W (2013). Simulating carbon fluxes in Siberia using assimilation of remotely sensed soil moisture data. GEOPHYSICAL RESEARCH ABSTRACTS, vol. 15, ISSN: 1029-7006 (oral presentation)
79. Ana Rey, Giuseppe Etiope, **Luca Belelli Marchesini**, Dario Papale and Riccardo Valentini (2011). Geological carbon sources may confound ecosystem carbon balance estimates measured by eddy covariance: evidence from a semiarid steppe in the SE of Spain. Geocarbon Conference Carbon in a changing world. 24-26 October 2011, FAO Roma. (poster presentation)

80. **Luca Beilelli Marchesini**, Carlo Trotta and Dario Papale (2011). Impact of climatic anomalies on the variability of net ecosystem exchange of European forests from daily to annual scale. GeoCarbon Conference Carbon in a changing world. 24-26 October 2011, FAO Roma. (poster presentation)
81. **Luca Beilelli Marchesini** and Dario Papale (2011). Processes controlling the inter-annual variability of the carbon balance of European forest sites and effect of climatic extremes from long term eddy covariance data. 3rd iLEAPS Science Conference, Garmisch-Partenkirchen, Germany, 18-23 September 2011. (poster presentation)
82. N.M. Tchebakova, A. Arneth, **L. Beilelli Marchesini**, C. Corradi, O. Kolle, J.A. Kurbatova, E.I. Parfenova, E.A. Vaganov, R. Valentini, N.N. Vygodskaya, E.-D. Schulze (2011). Energy, water, and CO₂ exchange in major ecosystems in Central Siberia (from eddy covariance measurements). Proceedings of the international IBFRA conference "Boreal Forests in a Changing World: Challenges and Needs for Action, August 15–21 2011, Krasnoyarsk, Russia, p 95-100, Krasnoyarsk: Sukachev institute of Forest SB RAS 2011. -. ISBN 978-5-7638-2367-7 (oral presentation)
83. N. Tchebakova, A. Arneth, **L. Beilelli**, C. Corradi, J. Kurbatova, E. Parfenova, N. Vygodskaya, E.-D. Schulze, and R. Valentini (2011) Energy and water exchange in various ecosystems in central Siberia (from eddy covariance measurements) Geophysical Research Abstracts Vol. 13, EGU2011-10479, 2011. (poster presentation)
84. R. Casa, **L. Beilelli Marchesini**, D. Papale, F. Mazzenga, P. Stefani, N. Arriga, and R. Valentini (2011) Assessment of the carbon balance of conventional and no-tillage cropland in Central Italy Geophysical Research Abstracts Vol. 13, EGU2011-9491, 2011. (poster presentation)
85. Rey A., **L. Beilelli Marchesini**, A. Were, P. Serrano, E. Pegoraro, F. Domingo, and D. Papale (2011) Wind as the main driver of ecosystem carbon exchange in a semi-arid alpha grass steppe in the South East of Spain Geophysical Research Abstracts Vol. 13, EGU2011-4284, 2011. (oral presentation)
86. **L. Beilelli Marchesini**, A. Rey, D. Papale, R. Valentini (2010) Temporal variability and drivers of net ecosystem production of a Turkey oak forest in Italy under coppice management, Geophysical Research Abstracts, Vol.12, EGU2010-8737. (oral presentation)
87. **L. Beilelli Marchesini**, A. Rey, D. Papale, R. Valentini (2010) Climatic and management influence on the carbon sequestration capacity of a deciduous oak coppice forest in Italy. Abstract B41A-0286 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec. (poster presentation)
88. **L. Beilelli Marchesini**, L. Massai, L. Perugini, S. Zibtsev, I. Buksha, P. Lakida, V. Pasternak, R. Valentini (2010), Green Investment Scheme: opportunities for the forest sector in Ukraine, International Conference-Forum "Emerging Economic Mechanisms: Implications for Forest- Related Policies and Sector Governance", FAO, Rome, 6-8 October 2010. (poster presentation)
89. F. Carbone, F. Alisciani, A. Barbati, **L. Beilelli Marchesini**, L. Perugini, P. Corona, R. Valentini (2010), Which lessons from the forest Clean Development Mechanism experiences? International Conference-Forum "Emerging Economic Mechanisms: Implications for Forest- Related Policies and Sector Governance", FAO, Rome, 6-8 October 2010. (oral presentation)
90. **L. Beilelli Marchesini**, A. Rey, D. Papale, R. Valentini (2010) Temporal variability and drivers of net ecosystem production of a Turkey oak forest in Italy under coppice management, Geophysical Research Abstracts, Vol.12, EGU2010-8737. (oral presentation)
91. P. Stefani, **L. Beilelli Marchesini**, C. Consalvo, A. Forgione, A. Bombelli, E. Grieco, F. Mazzenga, E. Vittorini, D. Papale, and R. Valentini (2009). Eddy Flux Tower in Ankasa Park: a new facility for the study of the carbon cycle of primary tropical forests in Africa. Geophysical Research Abstracts, Vol. 11, EGU2009-9538. (poster presentation)
92. **Beilelli Marchesini L.**, Stefani P., Forgione A., Papale D., Bombelli A., Grieco E., Mazzenga F., Vittorini E., Zompanti R., Valentini R (2008) Ankasa flux tower: a new facility for the study of the carbon cycle of primary tropical forests in Africa. Open Science conference on "Africa and Carbon Cycle: the CarboAfrica project" Accra (Ghana) 25-27 November 2008, p.13-22. (poster presentation)
93. **L. Beilelli Marchesini**, R. Casa, D. Papale, F. Pieruccetti, P. Stefani, N. Arriga, F. Mazzenga and R. Valentini (2008). Evaluation of the greenhouse-gas reduction efficacy of a rapeseed (*Brassica napus* L.) biofuel crop and impact of agronomic techniques. Geophysical Research Abstracts, Vol. 10, EGU2008-A-11269. (poster presentation)
94. **L. Beilelli Marchesini**, Riccardo Valentini. Water use efficiency and carbon dioxide fluxes of Siberian natural steppe and old field ecosystems (2008). Geophysical Research Abstracts, Vol. 10, EGU2008-A-11552. (poster presentation)
95. **L. Beilelli Marchesini**, D. Papale, M. Reichstein, N. Vuichard, N.Tchebakova, R.Valentini. (2007) Carbon balance of a natural steppe of Siberia by multiple constraint approach. American Geophysical Union (AGU) Fall Meeting 2007, San Francisco (USA), 10th-14th December 07. Eos Trans AGU 88(52), Fall Meet Suppl. Abstract B32B-08. (oral presentation)
96. **L. Beilelli Marchesini**, Riccardo Valentini (2007). Dynamics of carbon accumulation over an old field succession in the steppe region of Hakasia (Russian Federation). Third International Conference "Emission and sink of greenhouse gases on the Northern Eurasia territory", 4-8 June 2007, Puschino (Russia). (oral presentation)
97. Michiel K. van der Molen, A.J. Dolman and TCOS-Siberia Partners (Chiara Corradi, Olaf Kolle, Alexander Kononov, Juliya Kurbatova, **Luca Beilelli Marchesini**, Martin Heimann, Trofim Maximov, Ernst-Detlef Schulze, Olga Shibistova, Riccardo e, Andrej Varlagin, Sergej Zimov) (2006). Eddy Fluxes of Carbon Dioxide Obtained During TCOS-Siberia. Proceedings of the International workshop on carbon and water cycle of Siberia, 26-27 January 2006, Free University, Amsterdam, The Netherlands. (Nagoya, May 2006), p. 53-56. (oral presentation)

98. **L.Beilelli Marchesini**, O.Gavrichkova, R.Valentini (2006). Carbon balance assessment of a natural steppe of southern Siberia by multiple constraint approach. Proceedings of the International workshop on carbon and water cycle of Siberia, 26-27 January 2006, Free University, Amsterdam, The Netherlands (Nagoya, May 2006) , p.37-40. (oral presentation)
99. Vuichard Nicolas, **Beilelli Marchesini Luca**, Ciais Philippe and Valentini Riccardo (2006) Carbon sequestration due to the abandonment of croplands of former USSR since 1990. Open Science Conference on the GHG Cycle in the Northern Hemisphere, Sissi-Lassithi, Crete, 14-18 November 2006, p.93. (oral presentation)
100. **Beilelli Marchesini Luca**, Papale Dario, Nicolas, Tchebakova Nadja and Valentini Riccardo (2006) Multiple constrained NEP assessment of a natural steppe of Hakasia (Russia) Open Science Conference on the GHG Cycle in the Northern Hemisphere, Sissi-Lassithi, Crete (Greece) , 14-18 November 2006, p.228. (poster presentation)
101. Gilmanov, T.G., M.W. Demment, B.K. Wylie, K. Akshalov, D.D. Baldocchi, **L. Beilelli**, J.A. Bradford, R.L. Coulter, W.A. Dugas, W. E. Emmerich, L.B. Flanagan, A.B. Frank, M.R. Haferkamp, D.A. Johnson, T.P. Meyers, J.A. Morgan, M. Nasyrov, C.E. Owensby, M.S. Pekour, K. Pilegaard, N.Z. Saliendra, M.J. Sanz, P.L. Sims, J.-F. Soussana, L.L. Tieszen, S.B. Verma, and E.A. Laca. (2005). Quantification of the CO₂ exchange in grassland ecosystems of the world using tower measurements, modeling and remote sensing. Proceedings of the XX International Grasslands Congress, Dublin, Ireland. P 588, DOI: 10.3920/978-90-8686-552-9 (oral presentation)
102. **L. Beilelli Marchesini**, G. Manca, N. Tchebakova and R. Valentini (2004). Carbon balance of steppes of Southern Siberia measured by eddy covariance technique. Conference: Structure, functionality and dynamics of forests in occasion of the 60th anniversary of V.N. Sukachev Forest Institute of Russian Academy of Sciences, 1-3 September 2004, Krasnoyarsk (Russia), p.400-402. (in Russian) – (oral presentation).
103. **L. Beilelli Marchesini**, O.Gavrichkova, E.Parfonova, and R.Valentini (2004) – Interannual variability of net primary productivity of a natural steppe in southern Siberia. Conference: Structure, functionality and dynamics of forests in occasion of the 60th anniversary of V.N. Sukachev Forest Institute of Russian Academy of Sciences, 1-3 September 2004, Krasnoyarsk (Russia), p. 120-122. (in Russian)- (oral presentation)
104. **L. Beilelli Marchesini**, G. Manca, E. N. Parfenova, T. Otnuykova, N. Tchebakova and R. Valentini (2003) - Carbon and water exchanges over a natural steppe and a fallow field in southern Siberia: preliminary results. Carboeurope Conference “The Continental Carbon Cycle” 19-21 March, Lisbon (Portugal). (poster presentation)

MONOGRAPHS

105. **L. Beilelli Marchesini** (2007). Analysis of the carbon balance of steppe and old field ecosystems of Central Asia. University of Tuscia – Viterbo, PhD thesis in Forest Ecology – XVIII cycle. 209 pp. (<http://dspace.unitus.it/handle/2067/540>)
106. **L. Beilelli Marchesini** (2002) Flussi di carbonio ed energia in una formazione pioniera della taiga della Siberia centrale (Carbon and energy fluxes over a pioneer forest stand of the taiga in Central Siberia), Academic Year 2001/2002, University of Tuscia – Viterbo, M.Sc. thesis in Forest Ecology, 134 pp. (in Italian).

OTHER CONTRIBUTIONS

INVITED ORAL PRESENTATIONS:

L. Beilelli Marchesini. Incendi forestali tra cambiamenti climatici ed equilibri ecologici / Forest fires amid climate changes and ecological balances. Contribution to side vent “From the Amazon to Siberia: the impact of fires in a changing climate” of the SISC (Italian Society for Climate Sciences) “ClimRisk19” conference. MUSE, Trento (Italy), 25 October 2019.

Luca Beilelli Marchesini. Monitoring Ecosystem Services: research experiences from natural to urban environments. Agrarian Technological Institute of the Russian University for the People’s Friendship (RUDN), Moscow (Russia), 29 January 2019.

L.Beilelli Marchesini. How does soil respire? Science café “Let’s Science!”, Far Eastern Federal University – Vladivostok (Russia), 23 April 2018.

L.Beilelli Marchesini. Terrestrial vegetation – climate feedbacks. Science café “Let’s Science!”, Far Eastern Federal University – Vladivostok (Russia), 19 May 2017.

L.Beilelli Marchesini. Role of agricultural land in global climate change. International Investment Forum “Agro Far East and Siberia 2017”, Far Eastern Federal University – Vladivostok (Russia), 25 April 2017.

L.Beilelli Marchesini. Terrestrial vegetation – climate feedbacks. Conference “The kingdom of Plants and Fungi: Far Eastern aspects”, Botanical Garden Institute of Far Eastern branch of the Russian Academy of Sciences, Vladivostok (Russia), 21 April 2017

L.Beilelli Marchesini. Combining environmental benefits with Kyoto Protocol targets: case studies. GBEP side event: “Opportunities and challenges for a sustainable development of bioenergy”, Bucarest Romexpo Exhibitional Center, 22 April 2008

L.Beilelli Marchesini. The Influence of Land Use/Land Management on the carbon cycle of the Eurasian steppe region. North Eurasian Earth Partnership Initiative (NEESPI) workshop, Max Planck Institute for Biogeochemistry, Jena (Germany), 14-17 March 2008.

L. Beilelli Marchesini, N. Vuichard, I. Kurganova, R. Valentini (2006). Carbon sequestration due to the abandonment of croplands in former USSR since 1990, EU side-event on: Vulnerability of Carbon in Managed Lands. United Nation Climate Change Conference, Nairobi (Kenya), 9 November 2006.

CONTRIBUTED ORAL PRESENTATIONS:

Luca Beilelli Marchesini, Sergey Korovitchii, Valentina Tregubova, Simona Castaldi, Alina Totskaya, Dmitry Sherstnev, Olga Nesterova. Soil CO₂ and CH₄ fluxes under different land cover types of a university campus recreation area in Vladivostok. Smart and Sustainable Cities Conference, Moscow, 23-25 May 2018. (oral presentation).

L. Beilelli Marchesini, A. Rey, D. Papale, R. Valentini.: Carbon dynamics along the rotation period of a coppiced Turkey oak forest in Central Italy. UvA-VU Symposium "Earth, Ecology, Environment and Evolution", Amsterdam, 28-29 January 2014.

Luca Beilelli Marchesini, Ko van Huissteden, Artem Budishchev, Angela Gallagher, Yan Jiao Mi, Trofim Maximov, Roman Petrov and Han Dolman (2013). Net ecosystem carbon balance of a tundra ecosystem in NE Russia, Workshop Greenhouse gas and carbon balance of the PAGE21 research sites, 21 September 2013, Abisko (SE).

Dolman AJ, Shvidenko A, Schepaschenko D, Ciais P, Tchebakova N, Chen T, van der Molen MK, **Beilelli Marchesini L**, Maximov TC, Maksyutov S, Schulze E-D (2012). An estimate of the terrestrial carbon budget of Russia using inventory-based, eddy covariance and inversion methods. YAK Aerosol science meeting, Paris, 11 October 2012

Beilelli Marchesini L., Rey A., Papale, D., Valentini, R. (2010). Temporal variability and drivers of net ecosystem production of a Turkey oak (*Quercus cerris* L.) forest in Italy under coppice management. CARBO-Extreme project I Annual Meeting, 13 September 2010, Roskilde (DK).

Beilelli Marchesini L., Rey A., Papale, D., Valentini, R. (2009). Dinamiche temporali dello scambio di CO₂ a livello ecosistemico di un bosco ceduo di cerro (*Quercus cerris* L.) durante il turno selvicolturale. Congresso "Environment including global change", 5-9 October 2009, Palermo.

Matteucci G., Magno R., Facini O., **Beilelli Marchesini L.**, Petrella F., Papale D., Canfora E., Valentini R. (2008). Il bilancio di carbonio in ecosistemi forestali italiani. Relazione orale, "La Ricerca italiana sui Cambiamenti Climatici" 2° incontro tra progetti FISR, 13-14 November 2008, Deruta (PG).

Zuliani M., Alberti G., Di Tommasi P., Zenone T., Casa R., Pieruccetti F., **Beilelli Marchesini L.**, Stefani P., Arriga N., Delle Vedove G., Peressotti A., Magliulo E., Papale D., Valentini R. (2008). Gestione agricola e mitigazione dei gas ad effetto serra: sperimentazioni e modelli per analisi di scenario. Relazione orale, "La Ricerca italiana sui Cambiamenti Climatici" 2° incontro tra progetti FISR, 13-14 November 2008, Deruta (PG).

Nicolas Vuichard, Philippe Ciais, **Luca Beilelli**, Riccardo Valentini (2008). Growing biofuels over abandoned croplands in former USSR. Bioenergy and Earth System Sustainability Meeting (Earth System Science Partnership) 19-22 July 2008, Piracicaba, Brazil.

L. Beilelli Marchesini, R. Valentini, V.K. Dadhwal, O.P. Toky, S.P.S. Kushwaha, A. Bombelli, L. Perugini (2005). Carbon sequestration potential assessment in India by A/R activities and implementation of pilot studies. Indo-Italian Business Seminar on Renewable Energy and Energy Conservation, New Delhi 19-20 October 2005.

L. Beilelli Marchesini, R. Valentini (2005). Carbon balance of steppe ecosystems of southern Siberia. TCOS-Siberia/ Siberia II Joint Meeting, FSU, Jena (Germany), 14 July 2005.

POSTER PRESENTATIONS:

Beilelli Marchesini L., Wille C., Parmentier F.-J., Goeckede M., van Huissteden J., Aurela M., Boike J., Christensen T., Friborg T., Laurila T., Lund M., Jammet M., Kutzbach L., Maximov T. Chr., Sachs T., Shurpali N., Kuhry P. and Dolman H. The carbon budget of Eurasian Arctic sites: a synthesis from the PAGE21 flux network. Arctic Flux & Crucial Workshop, 6-9 February 2017, Hyytiälä (Finland).

J. van Huissteden, **L. Beilelli-Marchesini**. A portable automatic chamber system for measurement of CO₂ and CH₄ fluxes in wetland vegetation. InGOS International Conference, 21-23 September 2015, Utrecht (the Netherlands).

L. Beilelli Marchesini, N. Kowalska and, J. Van Huissteden. Tracking changes in methane emissions from a restored peat meadow in North Holland. InGOS International Conference, 21-23 September 2015, Utrecht (the Netherlands).

O. Peltola, A. Hensen, C. Helfter, **L. Beilelli Marchesini**, F. Bosveld, W. C. M. van den Bulk, S. Haapanala, T. Laurila, A. Lindroth, E. Nemitz, T. Röckmann, A. Vermeulen, I. Mammarella. Methane flux measurements on multiple scales in an agricultural landscape: linking tall tower flux measurements with short eddy covariance towers. 4th iLEAPS Science Conference, 12-16 May 2014, Nanjing (China).

L. Beilelli Marchesini, J. van Huissteden, A. Budishchev, A. Gallagher, Y. J. Mi, T.C. Maximov, R. Petrov and Han Dolman. Net Ecosystem Carbon Balance of a tundra ecosystem in the Siberian Arctic. UvA-VU Symposium "Earth, Ecology, Environment and Evolution", Amsterdam, 28-29 January 2014.

L. Beilelli Marchesini, C. Trotta, D. Papale (2013). Impact of climatic extremes on the variability of net ecosystem exchange of European forests. Open Science Conference on Climate Extremes and Biogeochemical Cycles, Seefeld, Austria, 2 - 5 April 2013.

Rey A, **Belelli L**, Were A, Serrano P, Domingo P, Papale D, Pegoraro E (2010). What causes high respiration fluxes in a semi-arid eco system in the south-east of Spain? 24th New Phytologist Symposium Plant respiration and climate change. Oxford, UK 11-14 April 2010.

C. Consalvo, **L. Belelli Marchesini**, R. Valentini (2010) Analysis of biodiversity and biomass in the Ankasa Resource Reserve, Ghana, Open Science Conference "Toward a biophysical carbon accounting in Africa and perspectives for REDD and CDM", 17-19 March 2010, Point Noire (Congo).

Belelli Marchesini L., Rey A., Papale, D., Valentini, R. (2009). Carbon dynamics along the rotation period of a *Quercus cerris* L. forest under coppice management in Central Italy. International Carbon Dioxide Conference 8, Jena (Germany), 13-19 September 2009.

Belelli Marchesini Luca, Riccardo Valentini (2007). Three years of continuous CO₂ flux measurements over a natural steppe in Hakasia (Russian Federation). CarboEurope-IP Integrated project Meeting Poznan, Poland 7-12 October 2007.

L. Belelli Marchesini, G. Bonavito, C. Cefalo and R. Valentini (2005). Carbon dioxide and energy fluxes over a natural steppe in Central Asia (Ubsu-Nuur). II CarboEurope-IP Integrated Project Meeting 10-13 January, Dublin (Ireland).

L. Belelli Marchesini, G.B. Zaini, R. Valentini (2005). Photosynthesis control on soil respiration in a Central Asiatic steppe. III CarboEurope-IP Integrated Project Meeting 14-17 November, Levi (Finland).

SUPERVISED THESES

1. Franco Anderle (2022). Monitoraggio di lungo periodo di ambienti forestali e prati alpini del Trentino: analisi della variabilità microclimatica e dei flussi di CO₂ a scala ecosistemica/Long term monitoring of forest and grassland alpine environments in Trentino: analysis of microclimatic and ecosystem scale CO₂ flux variability. Laurea Magistrale in Scienze Forestali ed Ambientali A.A. 2021. Università degli Studi di Padova. (<https://hdl.handle.net/20.500.12608/32003>). Tommaso Anfodillo (supervisor), Damiano Gianelle (co-supervisor), **Luca Belelli Marchesini** (co-supervisor)
2. Yulia Tsubulskaya (2018). Litterfall dynamics of broadleaved-coniferous mixed forests in the region of the Botanical Garden Institute Vladivostok (in Russian). Bachelor thesis in Ecology and Land Management, Far Eastern Federal University, Vladivostok, Russia. **Luca Belelli Marchesini** (supervisor), Yulia Galysheva (editor).
3. Anton Yagolnikov (2018). Temporal and spatial variability of root productivity in a broadleaved-coniferous forest stand in the territory of the Botanical Garden Institute-Vladivostok (in Russian). Bachelor thesis in Ecology and Land Management, Far Eastern Federal University, Vladivostok, Russia. **Luca Belelli Marchesini** (supervisor), Yulia Galysheva (editor).
4. Anna Shvedova (2018). Characterization of the above-ground and below-ground components of the carbon cycle of a mixed broadleaved- coniferous forest in the territory of the Botanical garden Institute – Vladivostok. Master thesis in Ecology and Land Management, Far Eastern Federal University, Vladivostok, Russia. **Luca Belelli Marchesini** (supervisor), Yulia Galysheva (editor).
5. Dmitry Sherstnev (2018). Comparative characteristic of typical forest stands and soils of southern Primorye on slopes with southern and northern exposure. Bachelor thesis in Soil Science, Far Eastern Federal University, Vladivostok, Russia. **Luca Belelli Marchesini** (supervisor).
6. Sergey Korovitzkii (2017). Study of seasonal dynamics of CO₂ and CH₄ fluxes in the soils of the Far Eastern Federal University campus (in Russian). Bachelor thesis in Soil Science Far Eastern Federal University, Vladivostok, Russia. **Luca Belelli Marchesini** (Supervisor).
7. Claudia Consalvo (2009). Analisi della biodiversità e dell'assorbimento di carbonio in una foresta tropicale equatoriale in Africa (Analysis of biodiversity and carbon sink capacity of a tropical rainforest in Africa); Riccardo Valentini (supervisor), **Luca Belelli Marchesini** (co-supervisor); Ciro De Pace (reviewer). Academic Year 2007/2008. University of Tuscia- Viterbo, M.Sc. thesis in Forest Ecology. (in Italian).