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Nature Management Geography

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Education

- **University Diploma in Geography (Meteorology-Climatology), Ivane Javakhishvili Tbilisi State University**
- **Ph.D in Geography (Meteorology-Climatology, Agrometeorology), Ivane Javakhishvili Tbilisi State University**

Work Experience

- **2014-Present, Ivane Javakhishvili Tbilisi State University. Faculty of Exact and Natural Sciences. Department of Geography. Associate professor.**
- **2009 – 2014, Ivane Javakhishvili Tbilisi State University (TSU). Faculty of Exact and Natural Sciences. Department of Geography. Assistant professor.**
- **1975-2009, Research worker, Docent, Ivane Javakhishvili Tbilisi State University (TSU).**

Teaching Courses:

- **Meteorology-Climatology**
- **Atmospheric processes**
- **Climatic resources**
- **Applied Meteorology**
- **Climatography of Georgia**
- **Radio Meteorology**
- **Climate Change**

Research Interests

Meteorology-Climatology, Atmosphere Ecology, Climate Change, Radio Meteorology, Climatic resources.

Grant Projects

- Modern Methods of the Joint Problem Realization for Shore Protection and Hydropower”, Shota Rustaveli National Science Foundation, №AR/220/9-120/14. 2015-2017.
- Landscape-ecological Evaluation of Samtskhe-Javakheti for Territorial Planning by Gis Analysis,” Rustaveli National Science Foundation, №AR/105/9-280/13. 2014-2016.
- Impact of Poti Sea Port Reconstruction on the Environment”, Environ. 2010.
- „Black Sea Scene”. European Union. 2008-2009.
- Analysis, Prioritization and Design of Rehabilitation Work on the Irrigation Systems in the Georgian-Ossetian Zone of Conflict. OSCE. 2007.
- The Meteorological Conditions of Ultra-Short Radio Wave’s propagation on the Territory of Transcaucasus”, The Georgian Department of the Science and Technology. 1997-1999.

Publications

1. **Lagidze L., Matchavariani L., Metreveli G., Tsivtsivadze N., Paichadze N., Gulashvili Z., Svanadze D.** Evaluation of Climate Parameters of Black Sea Coastline in the Background of Climate Change. *Journal of Environmental Biology*. Special Issue “Environment and Ecology.” Publisher: Triveri Enterprises. Special Issue of JEB, 2017, 38(5), 1069-1077 (IF 0.697).
2. *Matchavariani L., Metreveli G., Lagidze L., Gulashvili Z., Svanadze D., Paichadze N.* Positive Aspects of Studying the Sedimentation in Reservoirs through the Natural Experiment. *Journal of Environmental Biology*. Special Issue “Environment and Ecology.” Publisher: Triveri Enterprises. Special Issue of JEB, 2017, 38(5), 1155-1159 (IF 0.697).
3. **Lagidze L., Matchavariani L., Paichadze N.** The Influence of Circular Processes on Change in Precipitation in the Scope of Climate Change. *International Journal of GEOMATE*. Vol. 13, Issue 39. Japan, Mie, Scopus Impact Factor: 1.009, 213-219.
4. *L. Matchavariani, G. Metreveli, L. Lagidze, D. Svanadze, Z. Gulashvili.* Solution of Reservoirs’ Siltation Problem for Hydropower Development and Coastal Protection. *International Journal of GEOMATE*. Vol. 13, Issue 39, Japan, Mie, Scopus Impact Factor: 1.009, 206-212.
5. **Lagidze L., Matchavariani L., Tsivtsivadze N., Bregvadze G., Motsinelidze N., Paichadze N.** Basic Factors of Climate Peculiarities Formation & Climatic Zoning of Samtskhe-Javakheti. *Earth Sciences*. Special Issue “New Challenge for Geography: Landscape Dimensions of Sustainable Development” 2017. Vol. 6, № 5-1, 83-86.
6. *Matchavariani L., Metreveli G., Lagidze L., Paichadze N.* Siltation Problem of Mountainous Reservoirs and its Solution for Sustainable Hydropower. *Proceedings of 16th International Multidisciplinary Scientific GeoConference & Expo SGEM-2016*, 661-667.
7. **Lagidze L., Nikolaishvili D., Matchavariani L., Paichadze N.** The Changes of Precipitation in Samtskhe-Javakheti Region (GEORGIA) Against the Background of Climate Change. *Proceedings of the Second International Conference on Science, Engineering & Environment*, Osaka City, Japan, ISBN: 978-4-9905958-7-6 C3051, 651-656.
8. *Matchavariani L., Metreveli G., Alverdashvili M., Lagidze L., Svanadze D., Gulashvili G., Paichadze N., Bregvadze G.* Results of Field Experiments of Reservoirs’ Siltation for Harmonious Realization of Hydropower and Coastline Problems. *Proceedings of the Second International Conference on Science, Engineering & Environment*, Osaka City, Japan, ISBN: 978-4-9905958-7-6 C3051, 639-644.
9. **Lagidze L., Matchavariani L., Tsivtsivadze N., Khidasheli N., Paichadze N., Motsonelidze N., Vakhtangishvili M.** Medical Aspects of Atmosphere Pollution. *Journal of Environmental Biology*. Publisher: Triveri Enterprises (ISSN: 0254-8704; ISSN: 2394-0379). Special Issue of JEB, 2015, 36(1), 101-107 (IF 0.88)

10. *Matchavariani L., Kalandadze B., **Lagidze L.**, Gokhelishvili N., Sul Khanishvili N., Paichadze N., Dvalashvili G.* Soil Quality Changes in Response to their Pollution of Heavy Metals in Georgia. *Journal of Environmental Biology*. Publisher: Triveri Enterprises (ISSN: 0254-8704; ISSN: 2394-0379). Special Issue of JEB, 2015, 36(1), 85-91 (IF 0.88)
11. *Basilashvili Ts., Matchavariani L., **Lagidze L.*** Desertification Risk in Kakheti Region, East Georgia. *Journal of Environmental Biology*. Publisher: Triveri Enterprises (ISSN: 0254-8704; eISSN: 2394-0379). Special Issue of JEB, 2015, 33-37 (IF 0.88)
12. *L. Matchavariani, L. **Lagidze**, N. Paichadze.* Intensity, Distribution and Role of Profile-forming Processes in Pedogenesis of Georgia. Proceedings of the 15th International Multidisciplinary Scientific GeoConference SGEM2015 "Water Resources. Forest, Marine and Ocean Ecosystems", Section: Ecology Soils, vol.II (ISBN: 978-619-7105-37-7 / ISSN: 1314-2704), DOI: 10.5593/sgem2015B32, Albena, Bulgaria, 18-24 June, 2015, 199-207
13. *Khatiashvili E., **Lagidze L.**, Tsvitvadze N., Matchavariani L., Motsonelidze N.* About the Determination of Chlorine Dose for Drinking Water Disinfection. Proceedings of the 15th International Multidisciplinary Scientific GeoConference SGEM2015 "Ecology, Economics, Education and Legislation", Section: Ecology and Environmental Protection, vol.I [ISBN: 978-619-7105-39-1 / ISSN: 1314-2704], DOI: 10.5593/sgem2015B51, Albena, Bulgaria, 18-24 June, 2015, 11-18
14. *D. Kereselidze, L. Matchavariani, V. Trapaidze, L. **Lagidze**, G. Dokhnadze, N. Tkhilava, N. Gokhelashvili.* Evaluation and Management of the Risk of Flooding River Bank. *Engineering Geology for Society and Territory*. Vol.3: River Basin, Reservoir Sedimentation and Water Recourses. Springer International Publishing Switzerland (ISBN: 978-3-319-09053-5, ISBN: 978-3-319-09054-3 (e-Book)), DOI: 10.1007/978-3-310-09054-2, 2015, 463-469
15. *D. Kereselidze, L. Matchavariani, V. Trapaidze, L. **Lagidze**, D. Svanadze, G. Bregvadze, Z. Gulashvili.* Quantitative Assessment of Permissible Loads on Georgia's Soil. *American Journal of Environmental Protection*. Special Issue: Applied Ecology: Problems, Innovations. DOI: 10.11648/j.ajep.s.2015040301.15, 2015, vol. 4, No. 3-1, 29-33
16. *L. **Lagidze**, L. Matchavariani, D. Kereselidze, N. Tsvitvadze, N. Paichadze, N. Motsonelidze, M. Vakhtangishvili.* The Influence of Meteorological Conditions on Atmospheric Pollution in Georgia. *American Journal of Environmental Protection*. Special Issue: Applied Ecology: Problems, Innovations. DOI: 10.11648/j.ajep.s.2015040301.21, 2015, vol. 4, No. 3-1, 67-71
17. *L. **lagidze**, V. Trapaidze, B. Kalandadze.* Impact of the Relief on the Territorial Distribution of the Precipitations on the Example of Samtskhe-Javakheti Region. *Earth Sciences*. Special Issue: Modern Problems of Geography and Anthropology. DOI: 10.11648/j.earth.s.2015 040501.19, 2015, vol. 4, No. 5-1, 91-98
18. *N. Tsvitvadze, L. Matchavariani, L. **Lagidze**, N. Motsonelidze, G. Ivanov, N. Paichadze.* Modern Conceptual and Technological Approaches to the Georgia Black Sea Coastline Protection. *Earth Sciences*. Special Issue: Modern Problems of Geography and Anthropology. DOI: 10.11648/j.earth.s.2015 040501.19, 2015, vol. 4, No. 5-1, 46-53
19. *V. Trapaidze, B. Kalandadze, L. **Lagidze**, Z. Laoshvili, I. Kalandadze.* Role of Irrigation Farming in the Perspective Development of Agriculture in Samtskhe Region". *Earth Sciences*. Special Issue: Modern Problems of Geography and Anthropology. DOI: 10.11648/j.earth.s.2015 040501.19, 2015, vol. 4, No. 5-1, 46-53
20. *N. Tsvitvadze, E. Khatiashvili, Z. Askurava, L. Matchavariani, L. **Lagidze**, N. Motsonelidze, G. Ivanov, N. Paichadze, Z. Gulashvili.* Measures of Drinking Water Supply Reservoirs Ecological Problems Solution.

Proceedings of International Conference “Applied Ecology: Problems, Innovations” - ICAE-2015 (ISBN 978-9941-0-7644-2), 7-10 May, Tbilisi-Batumi, 2015, 288-291

21. *Khantadze N., Tsvitsivadze N., Matchavariani L., **Lagidze L.**, Paichadze N., Motsonelidze N., Vakhtangishvili M.* Theoretical Model of Desertification Process. Proceedings of the 14th International Multidisciplinary Scientific Geoconference SGEM2014 “Ecology, Economics, Education & Legislation” (ISBN: 978-619-7105-14-8 / ISSN: 1314-2704), DOI: 10.5593/sgem2014B32, Book-3, vol. 2, Albena, Bulgaria, 2014, 17-26 June, 281-289

22. *Tsvitsivadze N., Matchavariani L., **Lagidze L.**, Paichadze N., Motsonelidze N.* Problem of Surface Water Ecology in Georgia. Environment and Ecology in the Mediterranean Region-II. Chapter 24, Cambridge Scholars Publishing [ISBN: ISBN (10):1-4438-5538-3; ISBN(13):978-1-4438-5538-9], UK, 2014, 283-194

23. *Tsvitsivadze N., Matchavariani L., **Lagidze L.**, Paichadze N., Motsonelidze N.* Some Recommendations for Ecological Problems Solution in Georgia. Proceedings of 2nd International Symposium on Kazdaglari (Mount Ida) & Edremit “Human-Environment Interactions and Ecology of Mountain Ecosystem”, IKES-2013, (ISBN: 978-605-62253-6-9), May 2-4, Edremit, Turkey, 186-195

24. *G. Metreveli, N. Tsistsivadze, **L. Lagidze.*** Characteristic Features of Se level Series Analyses in the World Ocean Current Climatic Researched “.BGU-2012-7”, Vienna, AUSTRIA. Copernicus org. Meeting and Open Access Publication. www.Copenicus.org

25. *L. Matchavariani, B. Kalandadze, **L. lagidze,** E. Nikolaishvili, G. Apciauri, G.Dvalashvili.* The Features of Acid Soils with Plintic and Petroplintic Layer in Hymid Subtropics of Georgia.The 8th International Symposium on Plant-Soil Interactions at Low pH (PSILPH). University of Agricultural Sciences (UAS), GKVK, Bengaluru, INDIA, 2012

26. *Matchavariani L., **Lagidze L.*** Environment Transformation in Georgia as a result of Climate Change. In book: Environment and Ecology in the Mediterranean Region. Cambridge Scholars Publishing [ISBN (10): 1-4438-3757-1, ISBN (13): 978-1-4438-3757-6], UK, 2012, 379-393

27. *Khantadze A., Tsvitsivadze N., Kereselidze D., Matchavariani L., **Lagidze L.*** Problem of Active Soil Layer Recover in Desertification Process. Materials of Annual International Scientific-Practical Conference LXV Gertsensovsky Readings “Geography: Science and Education Problems”, devoted to the 215 anniversary of University and the 80 anniversary of Faculty of Geography. 2012, St.-Petersburg, RGPU of A.I. Herzen, 173-176

28. *G. Dokhnadze, G. Metreveli, N. Tsvitsivadze, **L. Lagidze.*** “Risk Assessment of Slope’s Soil Degradation”. Annals of Agrarian Science, vol. 9, #3, 2011, 53-57

29. *I. lagidze, N. Motsonelidze, N. Paichadze, M. Vakhtangishvili.* The influence of the synoptic factor on the change in the gradient of the refractive index of ultra short radio waves for the territory of Georgia. “Modern Problems of Geography”, 2011, 317-321.