



Personal Information

First name(s) / Surname(s) **Lyudmila Batyuk**

Address Sumy, Ukraine, 160 G. Kondratyeva St.

E-mail batyuk.liudmila@gmail.com

Nationality Ukrainian

Gender female

Current employment / Occupational field **Head of the Teaching Laboratory, Department of Agricultural Engineering, Sumy National Agrarian University**

Work Experience 45 years

Dates 1982-2009

Occupation or position held Engineer, Lead Engineer at the Laboratory of Granulation and Mass Transfer Equipment, Sumy State University

Main Activities and Responsibilities Overseeing the development and improvement of granulation equipment, preparing design and engineering documentation

Name and address of employer Sumy State University, 2 R. Korsakov St., Sumy, 40000, Ukraine

Type of business or sector Higher education institution (industry-specific laboratory)

Education and training

Dates 2010- 2019

Title of qualification awarded Senior Laboratory Assistant, Department of Tractors and Agricultural Machinery, SNAU

Principal subjects/occupational skills covered Organization and support of the educational process, administrative and record-keeping activities

Name and type of organisation providing education and training National University of Life and Environmental Sciences of Ukraine
Higher education institution (Faculty of Engineering and Technology)

Dates 2019–present

Occupation or position held Head of the Undergraduate Laboratory, Department of Agricultural Engineering, SNAU

Main Activities and Responsibilities Management of the Undergraduate Laboratory

Name and address of employer Sumy National Agrarian University, 160 H. Kondratyeva St., Sumy, 40021, Ukraine

Type of business or sector Higher education institution (Faculty of Engineering and Technology)

Dates 1977-1982
Degree Specialist
Major Machinery and Equipment for Chemical Production
Name of Educational Institution Kharkiv Polytechnic Institute, Sumy Branch, Ukraine
Level in a national or international classification Higher Education

Personal Skills and Competencies Process Management • Document Flow and Reporting • Data Collection, Analysis, and Processing • Digital Technologies in Education • Development of Educational Materials
Communication Skills • Management Skills • Teamwork Skills

Mother tongue(s) Ukrainian

Other Languages) English

Understanding				Speaking				Writing	
Listening		Reading		Dialogue		Monologue			
A2	Basic User	A2	Basic User	A2	Basic User	A2	Basic User	A2	Basic User

(*) [Common European Framework of Reference for Languages](#)

Social Skills and Competencies Empathy and interpersonal skills, Ethics and professional responsibility
Organizational Skills and Competencies Problem-solving and time management,
Computer Skills Planning and coordinating work processes,
Artistic Skills and Competencies Document management and analytical skills
Driver's License Category B (cars), Category A1 (tractors)

Appendices Останні публікації:
1. Equipment Operation and Maintenance. Sprayers and Fertilizer Application Machines. Textbook / K. G. Syrovitskyi, S. O. Kharchenko, O. I. Anikeev, M. L. Shulyak, V. M. Zubko, L. M. Batyuk. Edited by S. O. Kharchenko. – SNAU. – Sumy, 2024. – 134 pp.
2. Operational Technology for Corn Production in the Forest-Steppe Zone of the Sumy Region. Textbook / L. M. Shulyak, V. M. Zubko, G. I. Barabash, B. O. Sarzhanov, L. M. Batyuk. – SNAU. – Sumy, 2024. – 185 pp.
3. Agricultural Machinery. Practical Guide. Seeding and Planting Machines / M. V. Horovyi, O. M. Kalnaguz, L. M. Batyuk. SNAU. – Sumy. – 2024. – 130 pp.
4. Adaptive Braking Systems for Wheeled Vehicles: A Monograph for Higher Education Students Majoring in 275 “Transport Technologies” / E. M. Hetsovykh, V. M. Zubko, A. V. Saienko, L. M. Batiuk / – Sumy: SNAU, 2022. – 185 pp.
5. Hydraulic Drives for Agricultural Machinery. Workbook. Part 2 / V.M. Zubko, A.V. Saienko, L.M. Batiuk. – Sumy: SNAU, 2022. – 64 pp.
6. Agricultural Machinery. Practical Guide (Part 1) / V.M. Zubko, M.V. Gorovyi, O.M. Kalnaguz, L.M. Batyuk – Sumy: SNAU, 2022.– 125 pp.
7. Agricultural Machinery. Workbook (Part 2) “Machines and Mechanisms for Production Processes in Animal Husbandry” / V.M. Zubko, S.P. Sokolik, L.M. Batyuk – Sumy: SNAU, 2022. – 40 pp.
8. Agricultural Machinery. Workbook (Part 3) “Machines and Equipment for Processing Agricultural Products” / V.M. Zubko, S.P. Sokolik, L.M. Batyuk – Sumy: SNAU, 2022 – 66 pp.
9. Machinery and Equipment for Processing and Storing Agricultural Products. Laboratory Manual / V.M. Zubko, S.P. Sokolik, L.M. Batyuk. – Sumy: SNAU, 2021. – 65 pp.
10. Hydraulic Drives for Agricultural Machinery. Practical Guide. Part 1 / V.M. Zubko, A.V. Saienko, L.M. Batiuk. – Sumy, 2020. – 90 pp.

11. Methodological Guidelines for Independent Study in the Course "Chemistry and Fuels and Lubricants" for Undergraduate Students Majoring in 208 "Agricultural Engineering" at the Undergraduate Level / / V.I. Plavinsky, L.M. Batyuk — Sumy: SNAU, 2022. — 36 pp. Decision of the ITF Academic Council No. 4 dated January 31, 2022.
12. Mechanization and Mechanisms: Lecture Notes for Students in the 2nd and 1st of the 2nd and 1st-year courses for majors 205 "Forestry" and 206 "Landscape Architecture" in full-time and part-time programs / Zubko V.M., Sokolik S.P., Batyuk L.M. / SNAU — Sumy, 2022. — 60 pp. Regulation of the Faculty of Agricultural Technologies and Natural Resource Management. No. 11 dated May 23, 2022.
13. JUSTIFICATION OF ENGINEERING SOLUTIONS: Methodological Guidelines for Completing Laboratory and Practical Assignments for Students Pursuing a Second (Master's) Level of Higher Education in Specialty 208 "Agricultural Engineering" (Full-time and Part-time Programs). 54 pages (3.4 standard printed sheets). / S.O. Kharchenko; F.M. Kharchenko; K.G. Syrovitskyi; L.M. Batyuk. MR ITF No. 6 dated May 22, 24.
14. AGRICULTURAL MACHINERY. Lecture Notes. Agricultural Machinery / Agricultural Machinery: Lecture Notes for students pursuing a second (master's) level of higher education in specialty 208 "Agricultural Engineering." Part 1 / Zubko V.M., Batyuk L.M. — Sumy, 2024. — 149 pp. ITF Resolution No. 6 dated May 22, 24.
15. AGRICULTURAL MACHINERY. Lecture Notes. Agricultural Machinery: Lecture Notes for students pursuing a second (master's) level of higher education in specialty 208 "Agricultural Engineering." Part 2 / V.M. Zubko, L.M. Batyuk. — Sumy, 2024. — 77.
16. ENERGY RESOURCES. Methodological guidelines and recommendations for studying practical courses for students pursuing a first (bachelor's) degree in specialty 17, "Electric Power Engineering, Electrical Engineering, and Electromechanics," 4th year. 50 pages (2 standard printed sheets). / A.T. Lebedev, M.L. Shulyak, L.M. Batyuk. ITF MR No. 6 dated May 22, 24.
18. QUALIMETRY OF TRACTOR TESTING. Lecture notes for students pursuing a third-level (Doctor of Philosophy) degree in higher education, major 133 "Industrial Mechanical Engineering," 2nd year. Volume 87 (3.6 standard printed sheets). / Shulyak M.L., Lebedev A.T., Batyuk L.M., ITF MR No. 6 dated May 22, 24.
19. QUALIMETRY OF TRACTOR TESTING. Methodological guidelines and recommendations for studying practical classes for students pursuing a third-level (Doctor of Philosophy) degree in specialty 133 "Industrial Mechanical Engineering," 2nd year. 58 pages (2.4 standard printed sheets). / Shulyak M.L., Lebedev A.T., Batyuk L.M. ITF MR No. 6 dated May 22, 24.
20. ENERGY RESOURCES. Lecture notes for students pursuing a first (bachelor's) degree in specialty 141 "Electric Power Engineering, Electrical Engineering, and Electromechanics," full-time and part-time programs. 62 pages (2.6 standard printed sheets). / A.T. Lebedev, M.L. Shulyak, L.M. Batyuk. ITF Academic Council Resolution No. 6 dated May 22, 24.
21. OPERATION OF MACHINERY. ENERGY RESOURCES. Lecture notes for students majoring in 208 "Agricultural Engineering" at the bachelor's degree level in both full-time and part-time programs. Volume: 144 pp. Standard printed sheets: 16.275. Compiled by: M.L. Shulyak, K.G. Syrovitskyi, S.O. Kharchenko, V.M. Zubko, L.M. Batyuk. Approved by the ITF Academic Council No. 6 on May 22, 24.
22. Lecture Notes on the Course "Power Systems" for Students Pursuing a First (Bachelor's) Degree in Specialty 141 "Electric Power Engineering, Electrical Engineering, and Electromechanics" in Full-Time and Part-Time Programs / A.T. Lebedev, M.L. Shulyak, L.M. Batyuk — Sumy, 2024. — 62 pp. ITF MR No. 6 dated May 22, 24.
23. Intelligent Systems for Tractors and Automobiles, Service Support. Methodological Guidelines for Independent Study for Students Pursuing a First (Bachelor's) Degree in Higher Education in the Specialty 208 "Agricultural Engineering" / Compiled by A.T. Lebedev, M.L. Shulyak, S.P. Sokolik, L.M. Batyuk. — Sumy: SNAU, 2024. — 112 pp. Minutes of the ITF Meeting No. 3 dated November 26, 2024
24. Lecture Notes. (Part 1). Fuels, Lubricants, and Operating Materials, and Filtration Systems. For first-year students of the "Agricultural Engineering" educational program in both full-time and part-time formats pursuing a Bachelor's degree... Compiled by S.P. Sokolik, M.L. Shulyak, L.M. Batyuk — Sumy: SNAU, 2024. — 80 pp. Table 1. Minutes of the ITF Meeting No. 3 dated November 26, 2024
25. Lecture Notes. (Part 2). Fuels, Lubricants, and Operating Materials, and Filtration Systems. For first-year students of the "Agricultural Engineering" educational program in both full-time and part-time formats pursuing a Bachelor's degree... Compiled by S.P. Sokolik, M.L. Shulyak, and L.M. Batyuk. — Sumy: SNAU, 2025. — 98 pp. Minutes of the RZAOD and VO ITF No. 4 dated January 28, 2025.
26. Introduction to the Field and Legal Framework of the Agro-Industrial Complex. Lecture Notes for 2nd- and 1st-year students of the "Agricultural Engineering" educational program in full-time and part-time formats leading to a Bachelor's degree in higher education... Compiled by V.M. Zubko, L.M. Batyuk. — Sumy: SNAU, 2026. — 102 pp. RZAODtaYAVO ITF No. 4 dated January 22, 26
25. Mechanical and Technological Properties of Agricultural Materials. Lecture notes for 2nd- and 1st-year students of the "Agricultural Engineering" educational program in both full-time and part-time formats leading to a Bachelor's degree in higher education... Compiled by O.M. Kalnaguz and L.M. Batyuk. — Sumy: SNAU, 2026. — 121 pp. RZAODtaYAVO ITF No. 5 dated March 12, 26
27. Mechanical and Technological Properties of Agricultural Materials. Methodological Guidelines for Conducting Laboratory and Practical Work for 2nd- and 1st-year students of the "Agricultural Engineering" educational program in full-time and part-time formats leading to a Bachelor's degree.../ Compiled by O.M. Kalnaguz and L.M. Batyuk — Sumy: SNAU, 2026. — 58 pp. RZAODtaYAVO ITF No. 5 dated March 12, 2026

28. Machine-Field System. Methodological Guidelines for Laboratory and Practical Work for 4th- and 3rd-year students in the "Agricultural Engineering" educational program, both full-time and part-time, pursuing a Bachelor's degree in higher education./ Compiled by M.L. Shulyak, B.O. Sarghanov, O.M. Kalnaguz, L.M. Batyuk – Sumy: SNAU, 2026. – 89 pp. RZYAODtaYAVO ITF No. 5 dated March 12, 26
29. Machine-Field System. Lecture Notes for 4th- and 3rd-year students in the "Agricultural Engineering" educational program in the full-time and part-time tracks leading to a Bachelor's degree in higher education... Compiled by M.L. Shulyak, B.O. Sarzhanov, O.M. Kalnaguz, L.M. Batyuk – Sumy: SNAU, 2026. – 64 pp. RZYAODtaYAVO ITF Pr. 5 dated March 12, 26.
30. Operational Technology for Buckwheat Production in the Forest-Steppe Zone of the Sumy Region: Textbook / G.I. Barabash, L.M. Shulyak, V.M. Zubko, L.M. Batyuk – SNAU. – Sumy, 2026. – 268 pp. SNAU Academic Council Resolution No. 19 dated June 29, 2026._

Research and Publications

- DBT 0124U001116: "Justification of the Methodology for Synthesizing Technology; Composition of the Machinery Fleet; and Optimal Land Use to Maximize the Yield of a Specific Agricultural Crop" (Jan. 2024–Dec. 2028), (Principal Investigator: O.M. Kalnaguz)
1. Barabash, G.I., Batyuk, L.M., and Pogulyay, V.M. Analysis of Current Aspects of Corn Storage //Proceedings of the International Scientific and Practical Conference "AutoTRAK-2023." Kyiv: National University of Life and Environmental Sciences of Ukraine, May 6–7, 2024. pp. 21–22.
 2. Barabash, G.I., Batyuk, L.M., and Iliencko, O.G. Justification of a set of machines for growing grain corn / 10th International Scientific and Practical Conference "Prospects and Trends in the Development of Designs and Technical Service for Agricultural Machinery and Implements," Zhytomyr: Zhytomyr Agrotechnical College, April 18, 2024. pp. 178–179.
 3. Barabash, G.I., Shutko, V.V., Batyuk, L.M. Key Elements of Sunflower Cultivation Technology in Forest-Steppe Conditions//Innovative Technologies in Industry 5.0: Proceedings of the 30th International Scientific and Practical Conference (October 21–23, 2024). Part 1. – Sumy: SNAU, 2024 – pp. 87–88
 4. Prykhodko D., Batiuk L., Khvorost T. EFFECTIVENESS OF IMPLEMENTING PRECISION FARMING SYSTEMS / Proceedings of the International Scientific and Practical Conference "Technical Progress in Agricultural Production." 2024/-c/109–111
 5. Haidabura, O., Batiuk, L., Khvorost, T. The Right Choice of Seeding Machines: Quality and Efficiency of Seeding Operations. Proceedings of the XIV International Scientific and Practical Conference "Problems of Design, Production, and Operation of Agricultural Machinery." Kropyvnytskyi: Central National Technical University. 2023.– pp. 190–192.
 6. Savchynskyi, Y., Batyuk, L., Khvorost, T. Advantages of Using "AMS" Technology in the Agricultural Sector. Proceedings of the XIV International Scientific and Practical Conference "Problems of Design, Production, and Operation of Agricultural Machinery." Kropyvnytskyi: Central National Technical University. 2023.– pp. 193–194.
 7. Stadnichenko, O., Batyuk, L., Khvorost, T. Determining the Impact of Disc Implements on Soil Tillage Quality. Proceedings of the XIV International Scientific and Practical Conference "Problems of Design, Production, and Operation of Agricultural Machinery." Kropyvnytskyi: Central National Technical University. 2023.–pp. 194–195.
 8. Barabash, G. I., Batyuk, L. M. Technical Support for the Buckwheat Harvesting Operation//Proceedings of the 26th International Scientific Conference "Contemporary Problems of Agricultural Mechanics" (October 17–18, 2025). Ministry of Education and Science of Ukraine, National University of Life and Environmental Sciences of Ukraine. Kyiv. 2025.—pp. 143–146.
 9. Barabash, G.I., Batyuk, L.M. The Impact of Technical Equipment on the Quality Indicators of Buckwheat Harvesting//Proceedings of the Scientific and Practical Conference of Faculty, Graduate Students, and Undergraduates of Sumy National Agrarian University (April 13–17, 2026).—Part 1. – Sumy: SNAU, 2026.—p. 308

Professional Development

1. International internship "FUNDRAISING AND ORGANIZATION OF PROJECT ACTIVITIES IN EDUCATIONAL INSTITUTIONS: EUROPEAN EXPERIENCE," Ukraine–Poland, November 6–December 12, 2021, 180 hours, 6 ECTS credits (certificate SZFL-000991).
2. Professional development program for masters of vocational and practical training, National Academy of Pedagogical Sciences of Ukraine, State Higher Educational Institution "University of Educational Management" Bila Tserkva Institute of Postgraduate Education, October 2–19, 2023, 150 hours, 5 ECTS credits (certificate PK/SPF-35946459/000423-23).
3. Professional development for research and teaching staff at educational institutions that train qualified specialists for the agricultural sector on the topic: "Features of the Design and Operation of New Holland Equipment. Fundamentals of Diagnostics and Maintenance," December 13, 2023–February 21, 2024, 30 hours, 1 ECTS credit.