

STAFF RESUME

1. Last name, first name, patronymic	 Zhakypbek Yryszhan
2. Date of birth	10.01.1985
3. Work address:	Almaty, Abaya avenue, 8, academic building- 3, Department of Land Resources and Cadastre
Phone number:	+7 705 415 97 41
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4. Education:	Higher education: - Kazakh National Technical University named after K. I. Satpayev, Almaty (2004–2008). Bachelor's degree in Mining Engineering. - Kazakh National Technical University named after K. I. Satpayev, Almaty (2008–2009). Master of Engineering and Technology in Mining Engineering. - Kazakh National Technical University named after K. I. Satpayev, Almaty (2011–2014). PhD in Mining Engineering.
5. Foreign language proficiency (level):	English: Pre-Intermediate Chinese is perfect
6. Place of work, position (present):	Concurrent position as Associate Professor at Kazakh National Agrarian Research University.
7. Membership in professional associations/unions	
8. Participation in scientific/educational projects	- No. 751 MES GF 12.16 on the topic: “Optimization of reclamation works during open-pit mining of mineral deposits” (2011–2014) – Researcher - SKLCRSM16KFA01 “Kazakhstan–China joint bilateral study on waste bioremediation technology” (China, 2016–2017) – Project Leader - No. 2018/AP05131591 “Improvement of management of the technical and biological stages of land reclamation during open-pit mining” – Researcher - AP08053410 “Development of innovative methods for forecasting and assessing the condition of rock masses to prevent man-made emergencies” – Researcher - BR21881939 “Development of resource-saving energy-generating technologies and establishment of an innovation-engineering center for the mining and metallurgical complex” (2023–2025) – Senior Researcher - AP19576993 “Intensification of the reclamation process of disturbed lands during open-pit mining through the use of

	hyperaccumulator plants and mycorrhizae” (2023–2025) – Project Leader - BR24993218 “Development of innovative methods for solving the problems of desertification and soil degradation in the Caspian region” (2024–2026) – Project Leader
9. Professional activity	- September 2009 – August 2011: Assistant, Department of Engineering Geodesy and Land Management, Satbayev Kazakh National Technical University; - September 2011 – June 2014: Lecturer, Department of Mine Surveying and Geodesy, Satbayev Kazakh National Technical University; - September 2014 – August 2015: Senior Lecturer, Department of Mine Surveying and Geodesy, Satbayev Kazakh National Technical University; - September 2015 – August 2016: Acting Associate Professor, Department of Mine Surveying and Geodesy, Satbayev Kazakh National Technical University; - August 2016 – May 2019: Assistant Professor, Department of Mine Surveying and Geodesy, Satbayev University; - June 2019 – August 2024: Associate Professor, Department of Mine Surveying and Geodesy, Satbayev University; - Since September 2024: Professor, Department of Mine Surveying and Geodesy, Satbayev University.
10. Advanced training	- January 6–20, 2025: “Modern Artificial Intelligence Technologies in Geodesy, Mine Surveying, Land Management, and Cadastre” – 72 hours. - February 2025: “Application of Leica FlexLine Electronic Total Stations and Leica GS16 GNSS Receivers” – 72 hours. - February 2025: “Application of Leica GS18I GNSS Receivers and BLK2Go Scanners” – 72 hours. - January 9–21, 2024: “Innovative Teaching Technologies in the Field of Mine Surveying and Geodesy” – 72 hours. - May 22–June 3, 2023: “Geospatial Digital Engineering” – 72 hours. - July 1–15, 2025: “Development of Teachers’ Professional Competencies in Inclusive Education” – 72 hours
11 Scientific publications, educational and methodological literature	1. Md Abuhena, Y. Uteyev, A. Ardana, Zh. Kamarkhan, S. I. Allakhverdiev, K. A.Sadvakassova, J. Al. Rashid, Md D. Karim, T.K.Tastambek, A.M. Belkozhayev, a B.D. Kossalbayev, Y. Zhakypbek. An Overview of Bacillus Species in Agriculture for Growth Promotion, Biocontrol and Dry Tolerance. ES Food & Agroforestry, 2024. (Precentile 97%). DOI: https://doi.org/10.30919/esfaf1321 Q1 2. G. Rahman, J. Muhammad, M. Ilyas, M. Subhanullah, K. Ullah, M. Massimzhan, M. Toktar, Y. Bektay, M. Kalybekov, A. Ydyrys, Y. Zhakypbek. Phytoremediation of Heavy Metals from Soil and their Effects on Plant Physiology - A Review. ES Materials & Manufacturing, 2024, 26, 1298. (Precentile 98%). DOI: https://doi.org/10.30919/esmm1298 Q1 3. A. Konysbayeva, Z. Yessimsiitova, M. Toktar, A. Mutushev, Y. Zhakypbek, S. Tursbekov, G. Tursbekova, Zh. Kozhayev, A. Kozhamzharova6, S. Mombekov, S. Raheem. Result of reclamation of man-made dumps from phosphorite deposits in the semidesert

- zone of Kazakhstan. PLoS ONE 20(2): e0317500. Q1<https://doi.org/10.1371/journal.pone.0317500>. Plants. 2025. Vol. 14 (3) DOI: [10.3390/plants14030410](https://doi.org/10.3390/plants14030410)
4. G.B. Kezembayeva, K.B. Rysbekov, Z. Dyussenova, Y. Begimzhanova. Public Health Risk Assessment of Quantitative Emission from a Molybdenum Production Plant: Case Study of Kazakhstan. Engineered Science, 2025, 34, 1454. DOI: 10.30919/es1454 Q1
 5. Y. Zhakypbek, A.M. Belkozhaev, A. Kerimkulova, B.D. Kossalbayev, M. Toktar, S. Tursbekov, G. Turysbekova, A. Tursunova, K. T. Tastambek, S. I. Allakhverdiev. MicroRNAs in Plant Genetic Regulation of Drought Tolerance and Their Function in Enhancing Stress Adaptation. Plants. 2025. Vol. 14 (3) DOI: [10.3390/plants14030410](https://doi.org/10.3390/plants14030410) Q1
 6. Yryszhan Zhakypbek, Bekzhan D. Kossalbayev, Ayaz M. Belkozhaev, Toktar Murat, Serik Tursbekov, Elaman Abdalimov, Pavel Pashkovskiy, Vladimir Kreslavski, Vladimir Kuznetsov and Suleyman I. Allakhverdiev. Reducing Heavy Metal Contamination in Soil and Water Using Phytoremediation. Plants 2024, 13(11), 1534; <https://doi.org/10.3390/plants13111534> Q1
 7. Huayang Dai, Peng L., Nurpeissova M., Yueguan Y., Chongliang Y., Tursbekov S., Junting G., Zhakypbek Y., Konbay S. Subsidence control method by inversely-inclined slicing and upward mining for ultra-thick steep seams. International Journal of Mining Science and Technology. Available online. 2022. <https://www.webofscience.com/wos/woscc/full-record/WOS:000759115400009> Q1
 8. K. Rysbekov, D. Huayang, T. Kalybekov, M. Sandybekov, K. Idrissov, Y. Zhakypbek, G. Bakhmagambetova. Application features of the surface laser scanning technology when solving the main tasks of surveying support for reclamation. Mining of mineral deposits 2019, 13(3):40-48. <https://doi.org/10.33271/mining13.03.040>. Q1
 9. Lang Qiu, Yinli Bi, Bin Jiang, Zhigang Wang, Yanxu Zhang., Zhakypbek Y. Arbuscular mycorrhizal fungi ameliorate the chemical properties and enzyme activities of rhizosphere soil in reclaimed mining subsidence in northwestern China. Journal of Arid Land. 2019. Volume: 11. –P. 135-147. Publisher: Springer heidelberg, Germany. ISSN: 1674-6767. <https://doi.org/10.1007/s40333-018-0019-9>. Q2
 10. Yinli Bi, Lang Qiu, Zhakypbek Y., Bin Jiang, Yun Cai, Huan Sun. Combination of plastic film mulching and AMF inoculation promotes maize growth, yield and water use efficiency in the semiarid region of Northwest China. Agricultural Water Management. 2018. Volume: 201. –P. 278-286. Publisher: Elsevier science BV. Netherlands. ISSN: 0378-3774. <https://doi.org/10.1016/j.agwat.2017.12.008>. Q1
 12. Bi Y.L., Yu H.Y., Yryszhan Zh., Shi L.M., Zhao Y.J. Morphological characteristics of mycorrhizal plant based on 3D laser scanning technology. Meitan Xuebao/Journal of the China Coal Society Volume 41, Issue 8, 1 August 2016, Pages 2071-2077. <https://doi.org/10.13225/j.cnki.jccs.2015.1961>.

	13. Wang Z.G., Bi Y.L., Jiang B., Zhakypbek Y., Peng S.P., Liu W.W., Liu H. Arbuscular mycorrhizal fungi enhance soil carbon sequestration in the coalfields, northwest China. Scientific Reports. Volume 6, 17 October. 2016, 34336. ISSN: 2045-2322. https://doi.org/10.1038/srep34336. Q1
12. Additional information	- Recipient of the State Scholarship for Talented Young Scientists of the Republic of Kazakhstan (2015); - Diploma of the 1st Degree. “Best Educator in the Field of Education – 2020” (Republican Scientific and Practical Center “Daryn”); - Winner of the “Best University Teacher” competition (2020); - Corresponding Member of the National Academy of Mining Sciences.