

Curriculum Vitae of Postgraduate student/assistant Alexander Kozlovskiy

1. Personal details

Full Name	Postgraduate student/assistant Alexander Kozlovskiy (surname Kozlovskiy name Alexander)
Organisation	Southern Federal University, Rostov-on-Don, Russian Federation
Role	Postgraduate student/assistant

2. Qualifications

Degree/award	Year	Discipline/field	Organisation and country
Postgraduate study	From 2019 till present time	Computer science and engineering/ System analysis, information management and processing, statistics	Southern Federal University, Rostov-on-Don, Russian Federation
Master's Degree course	From 2017 till 2019	Computer science and engineering	Southern Federal University, Rostov-on-Don, Russian Federation
Bachelor course	From 2013 till 2017	Computer science and engineering	Southern Federal University, Rostov-on-Don, Russian Federation

3. Current and previous appointment(s)/position(s) in the past 10 years

Position held	Organisation	Department/Centre	Year appointed	Year completed
An employee of the organization and support service of the rector's office is an assistant to the rector.	Southern Federal University, Rostov-on-Don, Russian Federation	Institute of Computer Technologies and Information Security	2022	Till present time
Head of the Distillery Mobile and Web Application Development Laboratory.	Southern Federal University, Rostov-on-Don, Russian Federation	Institute of Computer Technologies and Information Security	2020	Till present time
Assistant of the Department of Computer Engineering	Southern Federal University, Rostov-on-Don, Russian Federation	Institute of Computer Technologies and Information Security	2019	Till present time
Programmer	Southern Federal University, Rostov-on-Don, Russian Federation	Institute of Computer Technologies and Information Security	2019	2022
Head of the Laboratory of Intelligent Computing Systems (Computer Vision)	Southern Federal University, Rostov-on-Don, Russian Federation	Institute of Computer Technologies and Information Security	2017	2022

4. Role on the project

- Project participant from the Russian side.
- Conducting an analysis of open sources on the research topic in terms of distributed registry technologies and distributed generation of training set.
- Conducting a patent search on the research topic in terms of distributed registry technologies and distributed generation of training set.
- Development and application, within the framework of the project, of methods for building career trajectories for community members (people) who perform data markup and formation of training samples.
- Development of a program and methodology for conducting experimental studies, analysis of research results and development of recommendations for their application.
- Development of algorithmically implemented methods for organizing distributed data markup, assuming consensus among community members (people and artificial intelligence systems) when marking up each instance of data
- Development of algorithmically implemented, consensus-based methods for the formation and verification of training samples based on distributed labeled data by communities, including people and artificial intelligence systems.

5. Expertise and contribution to project

- Postgraduate student/assistant Alexander Kozlovskiy has experience of participating in scientific projects of various levels as a performer.
- Postgraduate student/assistant Alexander Kozlovskiy proficient in research methods and search, analysis and decision-making tools.
- Postgraduate student/assistant Alexander has experience in developing algorithmic and software for intelligent systems.
- Postgraduate student/assistant Alexander Kozlovskiy is a specialist in the field of machine learning.

6. Evidence of research impact and contributions to the field

- Postgraduate student/assistant Alexander Kozlovskiy has experience in participating in scientific grants of various levels as a performer.
- The area of scientific research of postgraduate student/assistant Alexander Kozlovskiy is the methods of building problem-oriented automated and information systems including intelligent ones and data mining methods, which is confirmed by publications and grants.
- During the implementation of the scientific project, he was one of the developers of the open-source analysis software module based on machine learning technology.
- The topic of the dissertation for the degree corresponds to the research topic of the scientific project.
- Postgraduate student/assistant Alexander Kozlovskiy a number of certificates of state registration of computer programs for working with data.
- Postgraduate student/assistant Alexander Kozlovskiy is a member of the Council of Young Scientists and Specialists of the Rostov region of the VII convocation.

7. Ongoing and completed national and international projects

No.	Project Title	Sponsoring Agency	Budget	Status
1	Research and development of principles for building a quantum computing simulation system with built-in hardware support	Russian Foundation for Basic Research, 2020-2022	3500000 rub	Completed
2	Research and development of quantum algorithms for image detection and recognition in the environment of the hardware-software modular simulator of quantum computers	Russian Foundation for Basic Research, 2019-2021	3000000 rub	Completed
3	Grant of the Ministry of Education and Science of the Russian Federation in the form of a subsidy for the development of bachelor's and master's degree programs in the profile "artificial intelligence"	Ministry of Education and Science of Russia Federation, 2021-2023	35000000 rub	In the process of execution

8. Career-best and most relevant publications

1	2023	The system of recognition of the state government in the video stream using neural networks and other methods of mass education// Education of Tula State University, Technical Sciences, issue 2, UDC 004.891, DOI: 10.24412/2071-6168-2023-2-77-82
2	2023	An approach to conducting a conversation with an intelligent assistant // Online conference on Computer science (Scopus, appendix to the recording).
3	2023	Registration of the computer program "Open-source analysis software module based on machine learning technology". Certificate No. 2023610985 on state registration.
4	2022	Registration of the computer program "Neural network module for recognizing and counting objects on a given territory". Certificate No. 2022664725 on state registration.
5	2022	Registration of the computer program "Software neural network module for monitoring the time spent by public transport at bus stops". Certificate No. 2022664725 on state registration.
6	2022	Development of a high-performance method for determining geometric parameters for determining objects in an image * Izhevsk, South Ural University, Technical Sciences, issue 5, pp. 86-97 UDK 004.896 DOI 10.18522/2311-3103-2022-5-86-97
7	2022	On the approach to the generation of a plot-related text / Proceedings of Tula State University. Technical Sciences, N9, pp.160-167. DOI: 10.24412/2071;6168-2022-9-160-168
8	2022	Development of a contactless system for measuring geometric parameters of objects in the image * Proceedings of Tula State University, Technical Sciences, issue 9, pp.177-182. UDC 004.896 DOI: 10.24412/2071;6168-2022-9-177-182
9	2022	Intelligent system of non-contact biological monitoring and forecasting for water transport * Due to Tula State University, Technical Sciences, issue 2, UDC 621.833 DOI: 10.24412/2071;6168-2022-2-103-110
10	2021	Redundant labeling of distributed data in conditions of decentralized storage of training datasets for the Fog-and-Edge robotic environment // Lecture notes on networks and systems, volume 231, pp. 555-567. https://doi.org/10.1007/978-3-030-90321-3_46 ; (Scopus)
11	2021	Registration of the computer program "Library of components for the organization of recognition and accounting of objects in monitoring systems". Certificate No. 2021662746 about the state.
12	2021	Registration of the computer program "Program module of identification of the person" Certificate N 2021612379 about the state.
13	2021	Method of photogrammetric measurement of geometric parameters of objects invariant to photo-recording devices* Bulletin of the Adygea State University. Series 4: Natural-mathematical and technical sciences. UDC 004.4:528.71+004.3'142:621.317.752, DOI: 10.53598 / 2410-3225-2021-4-291-58-69
14	2021	Development of an expert system for selecting directions for applicants to the master's program. News of TulSU. Technical sciences. Issue 12 of UDC 004.7 DOI: 10.24412/2071;6168-2021-12-480-487.
15	2020	Development of a scheme of a hardware accelerator of quantum computing for correction quantum types of errors// Advances in Intelligent Systems and Computing, vol 1294, pp.64-73. DOI:10.1007/978-3-030-63322-6_5
16	2020	Registration of the computer program "Software simulator for Markov models". Certificate N 2020662652 about the state.
17	2020	Registration of the computer program "Software simulator for building and modeling quantum neural networks". Certificate N 2020665458 about the state.
18	2020	Registration of the computer program "Software simulator for the quantum walk algorithm". Certificate N 2020662971 about the state.
19	2019	Algorithmic support of intelligent digital image processing system for applied photogrammetry tasks* Bulletin of the Adygea State University. Series 4: Natural-mathematical and technical sciences. N 3 (246). p. 96;102. (In the list of the Higher Attestation Commission)