

## პირადი ინფორმაცია

სახელი ნანა  
გვარი გულუა  
დაბადების  
თარიღი 13.12.67  
სქესი მდედრ.  
მოქალაქეობა საქართველო, რუსეთი  
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## განათლება

უსდ (დამთავრებული)	სწავლების საფეხური	დიპლომის ნომერი	გაცემის თარიღი	კვალიფიკაცია
თსუ-ს სოხუმის ფილიალი	ერთსაფეხურიანი 5 წლიანი	AA №0032940	1998 (აღდგენილი)	მათემატიკოსი

## აკადემიური ხარისხი

აკადემიური ხარისხი	ფიზიკა-მათემატიკის მეცნიერებათა კანდიდატი (დოქტორთან გათანაბრებული)
მოპოვების თარიღი	1999
თემის დასახელება	ქართული ტექსტების ფორმალიზებული აღწერა, დამუშავების ალგორითმების პროგრამული უზრუნველყოფა და მისი გამოყენების შესაძლებლობა მასწავლებელი სისტემის ასაგებად

## NANA GULUA

**POSITION:** Doctor of Science in Physics and Mathematics, Full Professor of Informatics at Sokhumi State University

**Job address:** 12, Anna Polytkowskaja, office 210.

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**Lecture course has been taught during last 5 years:**

Fundamentals of Informatics

Data Structures and Algorithms

Programming Languages and their Functional Environment

Object Oriented Programming

Logical Programming

Object Oriented Programming

Computer Learning System Desing

Formal Languages and Grammars

Operation System Linux

### **FIELDS OF RESEARCH INTERESTS:**

AUTOMATED /AUTOMATIZED LEARNING SYTEMS CREATION/DEVELOPMENT, RESEARCH AND PROBLEM SOLUTIONS, COMPUTER PROCESSING OF NATURAL LANGUAGE TEXTS, COMPUTER MORPHOLOGICAL AND SYNTACTIC ANALYSIS, MODELLING OF NATURAL LANGUAGE SEMANTICS.

### **publications**

1.I.Kardava, J.Antidze, N.Gulua. Solving the Problem of the Accents for Speech Recognition

Systems, International Journal of Signal Processing Systems , June 2015, USA.

2. I.Kardava, J.Antidze, N.Gulua. Solving the Problem of the Accents for Speech Recognition Systems, International Journal of Signal Processing Systems 2015 5th International Conference on Computer Communication and Management (ICCCM 2015), 18-19 May 2015, Rome, Italy

3. J.Antidze, N.Gulua, I.Kardava. The software for composition of some natural language words, Lecture Notes on Software Engineering, vol.1, #3, August 2013, Singapore, pages 295-297.

4. J.Antidze, N.Gulua. Software Tools for Some Natural Language Texts Computer Processing, International Journal of Computer Technology and Application, David Publishing Company, vol. 3, #3, 2012, USA, Impact Factor=3.

5. J.Antidze, N.Gulua, I.Kardava. The Software for Composing of Georgian Words, Transactions of The International Scientific Conference Dedicated to the 90 Anniversary of Georgian Technical University, Pages 367-371, Tbilisi, Georgia, 19-21 September, 2012.

6. ჯემალ ანთიძე, ნანა გულუა, ირაკლი ქარდავა. სპეციალური სისტემა ქართული ენის კომპიუტერული სწავლებისა და ქართული ტექსტების კომპიუტერული დამუშავებისათვის, საქართველოს საპატრიარქოს წმიდა ანდრია პირველწოდებულის სახელობის ქართული უნივერსიტეტი, ცხუმ-აფხაზეთის მეცნიერებათა აკადემია, მათემატიკოსთა სამეცნიერო კონფერენცია მიძღვნილი პროფესორ რევაზ აბსავას ხსოვნისადმი, 9-10 თებერვალი, 2012.

7. J.Antidze, N.Gulua, D.Meliqishvili. Towards the Use of Rule-Based Programming for Computer Morphological, Syntactic and Semantic Analyses of the Georgian Texts, International Conference - The Georgian Language and Modern Technologies - 2011, Tbilisi, Georgia, 2011, pp. 27-29.

8. J.Antidze, N.Gulua. Generalized Tools for Computer Realization of Natural Language Models, accepted to PRIP'2011(The Eleventh International Conference on Pattern Recognition and Information Processing), Minsk, Belarus, 16-18 May, 20011.

9. J.Antidze, N.Gulua. Automatic Semantic Analysis of Georgian Language Phrases, accepted to publish in "Proceedings of Sokhumi State University", 2011.

10. J.Antidze, N.Gulua. Software for Processing of Natural Language Texts, Proceedings of Third International Conference “Problems of Cybernetics and Informatics”, Volume 1, pages 114-117, Baku, 2010. <http://fpv.science.tsu.ge/baku.mht>
11. Antidze, N. Gulua. Software tools for morphological and syntactic analysis of natural language and its application for semantic analysis, 1st international conference “Information and Computational Technologies” organized by N. Muskhelishvili Institute of Computational Mathematics and St. Andrew the First Called Georgian University of the Patriarchy of Georgia, 2 – 6 May, Tbilisi, 2010
12. J. Antidze, N. Gulua. On complete machine translation of text from Georgian Language, Georgian Scientific Electronic Journals, Computer Science and Telecommunications, N1, 2010. [http://gesj.internet-academy.org.ge/ge/list\\_artic\\_ge.php?b\\_sec=comp&issue=2010\\_01](http://gesj.internet-academy.org.ge/ge/list_artic_ge.php?b_sec=comp&issue=2010_01).
13. Antidze, N. Gulua. Methods of composition of semantic networks and their application for natural language texts’ analysis, XXIV enlarged session of I.Vekua Institute of Applied Mathematics’ seminar, 21-23 April, 2010
14. J.Antidze, N.Gulua. On Complete Computer Morphological and Syntactic Analysis of Georgian Texts, Proceedings of the Seventh International Conference Internet – Education – Science, vol. 1(11), pages 214-217, Vynnitsia, Ukraine, 2010. <http://fpv.science.tsu.ge/vinita1.mht>
15. J. Antidze, N. Gulua. Methods for composition of knowledge bases and their application, Scientific conference of Sokhumi State University’s professors, Tbilisi, 2010
16. J.Antidze, N.Gulua. Syntactic Models of Georgian Texts, Journal “Оптико-электронные информационно-энергетические технологии”, Vynnitsia Technical University, accepted for publication. (<http://www.vstu.vinnica.ua/~oeipt>), <http://fpv.science.tsu.ge/vinita.mht>
17. J.Antidze, N.Gulua. Machine Translation from Georgian Language into Another, Proceedings of I.Vekua Institute of Applied Mathematics, vol. 57, 2007, Tbilisi, pp. 21-34. <http://www.viam.science.tsu/publish/proceedings/vol57/tom57.htm>
18. J.Antidze, N.Gulua, D.Mishelashvili, L.Nukradze. On Complete Computer Morphological and Syntactic Analysis of Georgian Texts, Report of International Symposium – Natural

Language Processing, Georgian Language and Computer Technologies, Institute of Linguistics of Georgian Academy of Sciences, Tbilisi, 2009. [http://www.ice.ge/conferenciebi/Conf\\_Fs.html](http://www.ice.ge/conferenciebi/Conf_Fs.html)

19. J.Antidze, N.Gulua. On Complete Machine Translation of Text from Georgian Language, Internet Academy, Georgian Electronic Scientific Journals: Computer Sciences and Telecommunications 2009 (in English), to be appearing. [http://gesj.internet-academy.org.ge/ge/default\\_ge.php](http://gesj.internet-academy.org.ge/ge/default_ge.php)

18. J.Antidze, N.Gulua. Machine Translation from Georgian Language, International Conference on Modern Problems in Applied Mathematics, VIAM TSU, 7-9 October, 2008, Tbilisi <http://www.viam.science.tsu.ge/news.htm>

20. J.Antidze, N.Gulua. On Full Morphological, Syntactic and Partly Semantic Analysis of Georgian Language and Machine Translation from Georgian Language, Report of Symposium – Natural Language Processing, Georgian Language and Computer Technologies, Institute of Linguistics of Georgian Academy of Sciences, Tbilisi, 2008. [http://www.ice.ge/conferenciebi/Conf\\_Fs.html](http://www.ice.ge/conferenciebi/Conf_Fs.html) <http://fpv.science.tsu.ge/lingv-2008.mht>

21. Antidze J., Gulua N. Machine Translation from Georgian Language into another. Proceedings of I. Vekua Institute of Applied Mathematics, Tbilisi, Vol. 57, 2007, pp. 21-34

22. J.Antidze, N.Gulua, D.Melikishvili, D.Mishelashvili, L.Nukradze, S.Shengelia. System of Computer Morphology of Georgian Language, Reports of Enlarged Session of the Seminar of IAM TSU, 2006 .

23. J.Antidze, N.Gulua, D.Melikishvili, D.Mishelashvili, L.Nukradze. Application of Instrumental Tools for Georgian Texts Computer Processing, Report of Symposium – Natural Language Processing, Georgian Language and Computer Technologies, Institute of Linguistics of Georgian Academy of Sciences, Tbilisi, 2006 . [http://www.ice.ge/conferenciebi/Conf\\_Fs.html](http://www.ice.ge/conferenciebi/Conf_Fs.html) <http://fpv.science.tsu.ge/pub4.mht>

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- 28.N.Gulua. On the Computer-morphological analysis of verbs in the Georgian language. Communication of Sokhumi Branch of TSU, N3, 2005
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31. J.Antidze, N. Gulua. On selection of Georgian texts computer analysis formalism, Bulletin of The Georgian Academy of Sciences, 162, N2, 2000.
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33. J .Antidze, N. Gulua. Analysis of Georgian texts for construction of a teaching system, Reports of enlarged session of the seminar of IAM TSU, vol. 13, N4, 1998.
34. J.Antidze, N. Gulua. On One Approach to Construct a Teaching System, Communications of Sokhumi Branch of TSU, N1, 1998.