



## CV

### 1. Personal Information

<b>Surname</b>	Tibua
<b>Name</b>	Lali
<b>Mail</b>	l.tibua@seu.edu.ge

### 2. Position and specialty

<b>Position:</b>	Associated Professor
<b>Specialty</b>	Mathematics

### 3. Academic/Scientific degree

<b>Name of the higher education institution</b>	Ivane Javakhishvili Tbilisi State University; Faculty of Mathematics and Mechanics; Ivane Javakhishvili Tbilisi State University; Faculty of Mathematics and Mechanics(a post-graduate)
<b>Direction/ Specialty</b>	Mathematical Logic,Algebra and Numbers Theory;TSU
<b>Enrollment date</b>	1996-2000
<b>Dissertation defense date</b>	02.12.2005
<b>qualification</b>	Candidate of Physical and Mathematical Sciences
<b>Title of the dissertation topic</b>	Some Questions in Mathematical Theorem Proving
<b>Conductor of the theme</b>	Prof.Khimuri Rukhaia

### 4. Professional experience

<b>Date (mm/yy)</b>		<b>Employer</b>	<b>Position / duties</b>
<b>-from</b>	<b>-to</b>		
2019	present	Mathematical Logic and methodology; I. Vekua Institute of Applied Mathematics, Tbilisi State University	Researcher

2006	2019	Laboratory of Applied Logic and Programming; Tsu	Senior laboratorien
1996	1996-2006	Mathematical Logic and methodology; I. Vekua Institute of Applied Mathematics, Tbilisi State University	Senior laboratorian, Research; assistant, Researcher

### 5. Scientific-pedagogical experience

Date (mm/yy)		Higher Education Institutions	Study course / Research project	Learning step
-from	-to			
2018	-today	Georgian National University	Mathematics for Business(I and II)	undergraduate
2014	today	Universiti of Georgia	1.Fundamentals of quatitative research methods; 2.Logic 3.Mathematical Logic and Theory of Algorithm; 4.Basics of Financial Mathematics; 5.Discrete Structures	undergraduate
2017	today	Universiti of Georgia	Applied Statistic	graduate
2006	2014	TSU	1.Mathematical Logic and Discrete Mathematics; 2. Calculus III, IV,V 3. Basic of Geometry and Algebra	undergraduate
2010	2017	SANGU	1.Introduction To Discrete Mathematics 2. Elements to Mathematical Logic	undergraduate

### 6. scientific publications

Date	Topic of the working theme	Scientific Journal	Publisher
2020	Star Types: A Type System for Pattern Calculus with Finitary Matching	<u>Applied Mathematics, Informatics and mecanics</u> V.5	ISSN 1512-0074(print)ISS
2016	PpLog for Access Control	Journal of Technical Science and Technologies.	ISSN: 2298-0032

		Vol 5, No. 2, 41-44.	
2016	CLP(SC) in Membrane Computing	Journal of Technical Science and Technologies. Vol 5, No. 2, 44-48.	ISSN: 2298-0032.
2015	About a logical Method of Knowledge representation	Reports of the IX International Conference „Modern Information and Communication Technologies on Transport, In Industry and Education	Dnepropetrovsk;2015
2015	Description of unranked formal set theory	Proceedings of 12th International Conference on Theoretical and Applied Aspects of Program Systems Development (TAAPSD 2015),	Kiev;2015

## 7. Other activities

N	The Name and Description of the Activity			
1	International Conference on „Modern Problems in Applied Mathematics”; Dedicated to the 90-th anniversary of Iv. Javakhishvili TSU and 40-th anniversary of the foundations I. Vekua Institute of Applied mathematics; 7-9 octombetr, 2008, tbilisi, Georgia( member of Program and organizing committee) <a href="http://www.viam.science.tsu.ge/viam40/tezisebis_krebuli.pdf">http://www.viam.science.tsu.ge/viam40/tezisebis_krebuli.pdf</a>			
2	Academic Secretary of Seminars of I. Vekua Institute of Applied Mathematics;			
3	V(2009w, 2010,2011,2012,2013,2014,2015,2016-2020) International Tbilisi Summer School in Logic and Language( member of Program and organizing committee)			
Scientific Conferences				
Year	Author	Report Name	Place	Conference Name
2019	Kh.Rukhaia; 'L.Tibua	Logical proving Applications in Meteorological Teasts.	Batumi	X Annual International Conference of the Georgian Mathematical Union
2018	Kh.Rukhaia; 'L.Tibua	Usage of TSR Logic Methods in Natural Event Problems	Batumi	IX Annual International Conference of the Georgian Mathematical Union

2017	Kh.Rukhaia; 'L.Tibua S.Fkhakadze	Logical method of program analysis	Dnepropetrovsk	the IX International Conference „Modern Information and Communication Technologies on Transport, In Industry and Education
2017	KH.Rukhaia L.Tibua.S.Pkhakadze	The Invariance Property of Some Type of Derived Unranked Operator	Batumi	VIII Annual International Conference of the Georgian Mathematical Union
2015	Kh.Rukhaia; 'L.Tibua S.Fkhakadze	About a logical Method of Knowledge representation	Dnepropetrovsk	AAbstracts of the IX International Conference „Modern Information and Communication Technologies on Transport, In Industry and Education
2015	Kh.Rukhaia; 'L.Tibua S.Fkhakadze .G.Chankvetadze	The tauSR-Analogis of the Herbrand Method of Automatic Theorem Proving	Batumi	VI Annual International Conference of the Georgian Mathematical Union
2015	Kh.Rukhaia; 'L.Tibua S.Fkhakadze	Description of unranked formal set theory	Kiev	12th International Conference on Theoretical and Applied Aspects of Program Systems Development (TAAPSD 2015),
2015	Kh.Rukhaia; 'L.Tibua	Some Propertis of Some Unranked operators	Tbilisi	TheTherd Scientific Conference in Exact and Natural Sciences (TSU)
2014	Kh.Rukhaia; 'L.Tibua S.Fkhakadze	On an algorithmic process of establishing validity of some formulas of an unranked equational theory	Kiev	11th International Conference on Theoretical and Applied Aspects of Program Systems Development (TAAPSD 2014)
2014	Kh.Rukhaia; 'L.Tibua; G.Chankvetadze	Some properties of unranked operators	NNovosibirsk	Reports of the International Conference of the Sobolov Institute of Mathematics 2014; <a href="http://www.math.nsc.ru/conference/malmeet/14/accom.htm">http://www.math.nsc.ru/conference/malmeet/14/accom.htm</a>
2014	Kh.Rukhaia; 'L.Tibua	Applied aspects of the notation Theory	Tbilisi	The Second Scientific Conference in Exact and Natural Sciences (TSU)

2014	Kh.Rukhaia; 'L.Tibua G.Chankvet adze	Some Propertis of Some Unrancked	Batumi	V Annual International Conference of the Georgian Mathematical Union
2013	Kh.Rukhaia; 'L.Tiba S.Fkhakadze	Applied problems of the notation theory	Kiev	10th International Conference on Theoretical and Applied Aspects of Program Systems Development
2013	L.Tibua Rukhaia Kh.	One algorithmic process for deciding validity of some unranked tauSR- logic	Tbilisi	Second International Conference on "Modern Problems in Applied Mathematics"
2013	L.Tibua Rukhaia Kh.	Softwares of an algorithm of the Classification Of Unranked Propositional Logic Formulas	Batumi	IV Annual International Conference of the Georgian Mathematical Union
2013	Kh.Rukhaia; 'L.Tibua	Applied aspects of the notation Theory	Tbilisi	The First Scientific Conference in Exact and Natural Sciences (TSU)
2012	L.Tibua Kh.Rukhai; G.Chankvet adze; G. Mikanadze	An Algorithm Of the Classification Of Unranked Propositional Logic Formulas	kiev	Theoretical and Applied aspects of program systems developments TAAPSD <a href="http://www.taapsd.ukma.kiev.ua">www.taapsd.ukma.kiev.ua</a>
2012	L.Tibua G.Fedulov; T. Dzagania, K.Babalian, N.IaSvili;	The Logical Computer Game for Pupils to Study English on the Basis of the Algorithm of Solving the Bin Packing Problem	Batumi	III Annual International Conference of the Georgian Mathematical Union
2012	L.Tibua X.Ruxaia	Unranked Quantifier Theory	Batumi	III Annual International Conference of the Georgian Mathematical Union
2012	L.Tibua Kh.Rukhai; G.Chankvet adze; G. Mikanadze	Unranked formal mathematical theory	NNovosibirsk	Reports of the International Conference of the Sobolov Institute of Mathematics 2012; <a href="http://www.math.nsc.ru/conference/malmeet/12/accom.htm">http://www.math.nsc.ru/conference/malmeet/12/accom.htm</a>

2011	L.Tibua Kh.Rukhaia	General Programming Theory based on the Notation Theory	Novosibirsk	Reports of the International Conference of the Sobolov Institute of Mathematics 2011; <a href="http://www.math.nsc.ru/conference/malmeet/11/accom.htm">http://www.math.nsc.ru/conference/malmeet/11/accom.htm</a>
2011	L.Tibua Kh.Rukhaia	Modification of $\tau$ operator for Artification languages	Batumi	II Annual International Conference of the Georgian Mathematical Union
2011	L.Tibua FedulovG.; Rukhaia Kh, Iashvili N.	Tool of Finding the Bounds of Objective Functions for a Class of one-dimensional Bin Packing Problems	Austria	EU/MEeting 2011
2010	L.Tibua Kh.Rukhaia	The Notation Theory for Inteligence	Batumi	First Annual International Conference of the Georgian Mathematical Union <a href="http://www.rmi.ge/~gmu">http://www.rmi.ge/~gmu</a>
2010	L.Tibua FedulovG.; Rukhaia Kh, Iashvili N.	Tool to find the bounds of objective foubdions for the tasks of one-dimensional bin packing class	Batumi	First Annual International Conference of the Georgian Mathematical Union <a href="http://www.rmi.ge/~gmu">http://www.rmi.ge/~gmu</a>
2010	L.Tibua Kh.Rukhaia B.Dundua	A method for XML processing and reasoning	Kiev	The International Conference ‘‘Theoretical and Applied aspects of program systems developments TAAPSD <a href="http://taapsd.ukma.kiev.ua">http://taapsd.ukma.kiev.ua</a>
2010	L.Tibua; Kh. Rukhaia	LLogical Base of programming General Theory	NNovosibirsk	the International Conference of the Sobolov Institute of Mathematics <a href="http://www.math.nsc.ru/conference/malmeet/10/accom.htm">http://www.math.nsc.ru/conference/malmeet/10/accom.htm</a>

Scientific Grants		
Year	Grant Name	Donor Organization

2019-2021	Design and Analysis of NTRU-based Cryptosystems Using Formal Methods;	Shota Rustaveli National Science Foundation
2015-2018	Rewrite-Based Usage Control	Shota Rustaveli National Science Foundation
2012-2015	Constraint Logic Programming over Unranked Terms and and Hedges with Description Operators	Shota Rustaveli National Science Foundation
2006-2009	Practical formal verification using automated reasoning and model checking	INTAS ID 05-1000008-8144
2005-2006	Elaboration theoretical and applied quation of programme. Crition of algorithm and program systems for computer to solving tipicals tasks	GNSF
2005-2006	Computation of the Georgian Natural language system	GNSF
2004-2005	Course Development competition ;	Curriculum Resource Center CEU