

# Konstantine Razmadze

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## EMPLOYMENT HISTORY

2015 – 2020

Specialist of Financial Analysis | Department of Logistics at St. Andrew the First-Called Georgian University of the Patriarchate of Georgia.

2014 – 2019

Specialist an International Researches | Department of Mathematic, National Assessment and Examinations Center.

2017 – 2018

Math teacher | School Hellios, Georgia

## EDUCATION

2019 – Present

Tbilisi State University and University of Goettingen, “International Doctoral Program in Mathematics” | Tbilisi, Georgia, Goettingen, Germany

PhD student: Mathematics

2014 – 2016

St. Andrew the First-Called Georgian University of the Patriarchate of Georgia | Tbilisi, Georgia MSc (with honors): Mathematics

Thesis Title: *Bi-modal Logic of Open-Continuous Maps*

2010 – 2014

St. Andrew the First-Called Georgian University of the Patriarchate of Georgia | Tbilisi, Georgia BSc (with honors): Mathematics

Thesis Title: Modal Logics of Real Line

## PARTICIPATION IN RESEARCH PROJECTS

2024

Shota Rustaveli National Science Foundation-DAAD | Georgia/Germany

Principal researcher in grant Rustaveli-DAAD 2024 *Temporal Logic of a Sequence of Finite Linear Processes*

2023 – 2026

Shota Rustaveli National Science Foundation | Georgia

**Researcher** in grant FR-22-6700 *Polyhedral Semantics for modal and intuitionistic logic*

2023 – 2026

**Shota Rustaveli National Science Foundation | Georgia**

**Researcher** in grant FR-22-4923 *A categorical approach to generalized bialgebras, Hopf algebroids and related structures; descent and term rewriting*

2022 – 2024

**Shota Rustaveli National Science Foundation | Georgia**

**Programmer** in grant STEM-22-1601 *Mathematical Models in Molecular Biology and Genetics*

2019 – 2024

**Shota Rustaveli National Science Foundation and Volkswagen Foundation | Georgia/Germany**

**PhD Fellowship** in Project N93581 *International Doctoral Program in Mathematics*

2018 – 2022

**Shota Rustaveli National Science Foundation | Georgia**

**Programmer** in grant FR-18-10849 *Stable structures in homological algebra*

2017 – 2019

**Shota Rustaveli National Science Foundation | Georgia**

**Principal Researcher** in grant # PhD\_F\_17\_88 *Analysis of the Multi-modal Logics for Modal Maps*

2015 – 2016

**Shota Rustaveli National Science Foundation | Georgia**

**Principal Researcher** in grant # 15MR\_2.1.1\_41 *Bi-modal Logic of Open-Continuous Maps*

## **PUBLICATIONS**

2023 D. Gabelaia, E. Kuznetsov, L. Uridia, R.C. Mihailescu, K. Razmadze, “*Temporal logic of surjective bounded morphisms between finite linear processes*”, *Journal of Applied Non-Classical Logics*

2017 Konstantine Razmadze, *Bi-modal Logic of Open-Continuous Maps*, Works of Georgian University III, 2017, pg. 200-223, “Georgian University”, Tbilisi, 2017.

## **PARTICIPATION IN SCIENTIFIC EVENTS**

31/06/24-7/07/24

**Topology, Algebra and Categories in Logic 2024 (TACL 2024) | Barcelona, Spain**

**Talk:** *Temporal Logic of a Sequence of Finite Linear Processes*

22/04/24-24/04/24

**International conference of the Institute of Applied Mathematics named after Ilya Vekua (Viam 2024) | Tbilisi, Georgia**

**Talk:** *Bi-Modal Logic of Maps*

2/11/23-26/01/24

Invited researcher in Ludwig-Maximilians-University (LMU) of Munich, Munich Center for Mathematical Philosophy (MCMP) | Munich, Germany

7/12/23

“Meet to MCMPer” in Ludwig-Maximilians-University (LMU) of Munich, Munich Center for Mathematical Philosophy (MCMP) | Munich, Germany

**Talk:** *Logic of Shelves*

18-22/09/2023

14th International Tbilisi Symposium on Language, Logic and Computation | Telavi, Georgia

**Talk:** *Temporal logic of surjective bounded morphisms between finite linear processes*

7-15/09/2023

17th International Tbilisi Summer school in Logic and Language and LATD 2023| Tbilisi, Georgia

26/01/23

“Meet to MCMPer” in Ludwig-Maximilians-University (LMU) of Munich, Munich Center for Mathematical Philosophy (MCMP) | Munich, Germany

**Talk:** *Analysis of Multimodal Logics of Modal Maps*

1/07/22-01/02/23

Invited researcher in Ludwig-Maximilians-University (LMU) of Munich, Munich Center for Mathematical Philosophy (MCMP) | Munich, Germany

8/08/22-19/08/22

33RD European Summer School in Logic, Language and Information | Galway, Ireland

14/06/22-18/06/22

Topology, Algebra and Categories in Logic 2022 (TACL 2022) | Praia de Mira, Portugal

30/08/2021-3/09/2021

Summer school on Algebra, Topology and Analysis:  $C^*$  and  $A(\infty)$  Algebras | Gonio, Georgia

**Talk:** Analysis of the multi-modal logics for modal maps

27/03/2021-5/04/2021

Mathematical Modelling of Epidemics (MME 2021) | TSU- Goettingen (online)

**Talk:** Modelling of the test-trace-isolate strategy

10/06/19-21/06/19

Topology, Algebra and Categories in Logic 2019 (TACL 2019) | Nice, France

23/05/18-31/06/18

Research visit to Institut de Recherche en Informatique de Toulouse (IRIT, CNRS),  
Consultant was Philippe Balbiani, Senior researcher at CNRS |Toulouse, France

18-22/09/2017

Twelfth International Tbilisi Symposium on Language, Logic and Computation | Lagodekhi, Georgia  
**Talk:** Bi-modal Logics of Mappings

15-26/08/2016

28th European Summer School in Logic, Language and Information | Bolzano-Bozen, Italy

19/05/2015

Young Scientists Conference | Tbilisi, Georgia  
**Talk:** Hybrid Logics of Trees and Linear Orders

22/05/2014

First Science Conference of Georgian University | Tbilisi, Georgia  
**Talk:** Modal Logics of Real Line

## LANGUAGE PROFICIENCY

Georgian – Fluent

English – C1

Russian – B2

Old Albanian – B2