

# Yuri Ruben Hakopian

Faculty of Informatics and Applied Mathematics

Dean

☎ 23-99  
(060) 71-03-99

✉ yuri.hakopian@ysu.am

## Education

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| <b>Institution</b> | Yerevan State University       |
| <b>Faculty</b>     | Faculty of Applied Mathematics |
| <b>Date</b>        | 1966 - 1972                    |
| <b>Degree name</b> | Qualified specialist           |

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## Scientific Rank/degree

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| <b>Institution</b>    | Institute for Informatics and Automation Problems, National Academy of Sciences of Armenia |
| <b>Date</b>           | 2000   |
| <b>Degree name</b>    | Doctor   |
| <b>Specialty</b>      | Physico-mathematical sciences  |
| <b>Research Topic</b> | Algebraic Multigrid Preconditioners for Finite Element Matrices                            |

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## Language skills

Հայերեն Русский English

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## Work experience

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| <b>Institution</b>    | Yerevan State University                                   |
| <b>Period of time</b> | 2021 till now  |
| <b>Rank/degree</b>    | Dean of the Faculty of Informatics and Applied Mathematics |

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| <b>Institution</b>    | Yerevan State University  |
| <b>Period of time</b> | 2020 - 2021   |
| <b>Rank/degree</b>    | Acting Dean of the Faculty of Informatics and Applied Mathematics |

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| <b>Institution</b>    | Yerevan State University   |
| <b>Period of time</b> | 2007 - 2020  |
| <b>Rank/degree</b>    | Head of the Department of Numerical Analysis and Mathematical Modeling |

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| <b>Institution</b>    | Yerevan State University |
| <b>Period of time</b> | 2001 - 2007              |

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| <b>Rank/degree</b>    | Head of the Department of Mathematical Methods and Modeling                            |
| <b>Institution</b>    | Yerevan State University   |
| <b>Period of time</b> | 1996 - 2001  |
| <b>Rank/degree</b>    | Associate Professor, Department of Mathematical Methods and Modeling                   |
| <b>Institution</b>    | Yerevan State University   |
| <b>Period of time</b> | 1987 - 1996  |
| <b>Rank/degree</b>    | Associate Professor, Department of Mathematical Models and Methods of Natural Sciences |
| <b>Institution</b>    | Yerevan State University   |
| <b>Period of time</b> | 1980 - 1987  |
| <b>Rank/degree</b>    | Associate Professor, Department of Numerical Analysis                                  |
| <b>Institution</b>    | Yerevan State University   |
| <b>Period of time</b> | 1976 - 1980  |
| <b>Rank/degree</b>    | Assistant at the Department of Numerical Analysis                                      |

## Scientific interests

- Numerical Analysis
- Numerical Linear Algebra
- Algebraic Multilevel Preconditioning Methods
- Finite Element Method

## Participation in international conferences and seminars

|                                    |   |
|------------------------------------|---|
| <b>30/09/1997 -<br/>02/11/1997</b> | Research visit: INTAS, grant No. 93-377ex<br>Catholic University of Nijmegen<br>Netherlands (the) |
| <b>28/09/1996 -<br/>09/11/1996</b> | Research visit: INTAS, grant No. 93-377ex<br>Catholic University of Nijmegen<br>Netherlands (the) |
| <b>12/09/1995 -<br/>12/10/1995</b> | Research visit: INTAS, grant No. 93-377<br>Catholic University of Nijmegen<br>Netherlands (the)   |
| <b>07/09/1993 -<br/>30/10/1993</b> | Research visit: NWO, grant No. 7.13.-016<br>Catholic University of Nijmegen<br>Netherlands (the)  |

- 20/03/1998 -  
01/05/1998**      Research visit: Department of Mathematics of the University of Houston  
University of Houston, Texas  
United States of America (the)
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- 28/11/1992 -  
12/12/1992**      Research visit: Department of Mathematics of the University of Jyuvaskula  
University of Jyuvaskula  
Finland
- 
- 07/04/1991 -  
10/04/1991**      Research visit: Semester on Numerical Analysis and Mathematical Modelling  
Stephan Banach International Mathematical Center, Warsaw  
Poland
- 
- 07/04/1987 -  
21/04/1987**      Research visit: Semester on Numerical Analysis and Mathematical Modelling  
Stephan Banach International Mathematical Center, Warsaw  
Poland
- 
- 24/06/1997 -  
30/06/1997**      International Algebraic Conference dedicated to the memory of D.K.Faddeev  
V.A. Steklov Mathematical Institute of the Russian Academy of Sciences, St.  
Petersburg branch  
Russian Federation (the)
- 
- 18/09/1995 -  
22/09/1995**      1th European Conference on Numerical Mathematics and Advanced Applications  
ENUMATH'95  
Pierre and Marie Curie University, Paris  
France
- 
- 29/06/1992 -  
03/07/1992**      3th International Conference on Numerical Analysis  
The Russian Academy of Sciences, Moscow  
Russian Federation (the)
- 
- 21/05/1990 -  
25/05/1990**      4th International Symposium on Domain Decomposition Methods  
Academy of Sciences of the USSR, Moscow  
Russian Federation (the)
- 
- 13/08/1989 -  
19/08/1989**      4th International Conference on Differential Equations and Applications  
Bulgarian Academy of Sciences, Ruse  
Bulgaria
- 
- 21/09/2008 -  
26/09/2008**      VI international conference «Problems of the dynamics of interaction of deformable  
media»  
Institute of Mechanics of the National Academy of Sciences of the Republic of  
Armenia  
Armenia
- 
- 19/09/2011 -  
23/09/2011**      VII international conference «Problems of the dynamics of interaction of deformable  
media»  
Institute of Mechanics of the National Academy of Sciences of the Republic of  
Armenia

Armenia

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**25/09/1997 - 29/09/1997** - International Conference CSIT'1997 «Computer Science and Information Technologies»  
The National Academy of Sciences of the Republic of Armenia  
Armenia

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**17/08/1999 - 22/08/1999** - International Conference CSIT'1999 «Computer Science and Information Technologies»  
The National Academy of Sciences of the Republic of Armenia  
Armenia

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**17/09/2001 - 20/09/2001** - International Conference CSIT'2001 «Computer Science and Information Technologies»  
The National Academy of Sciences of the Republic of Armenia, Yerevan  
Armenia

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**22/09/2003 - 26/09/2003** - International Conference CSIT'2003 «Computer Science and Information Technologies»  
The National Academy of Sciences of the Republic of Armenia  
Armenia

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**26/09/2011 - 30/09/2011** - International Conference CSIT'2011 «Computer Science and Information Technologies»  
The National Academy of Sciences of the Republic of Armenia  
Armenia

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## Membership

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**Institution** Member of Specialized Council 044 «Mathematical Cybernetics and Mathematical Logic» at the Yerevan State University

**Period of time** 2008 - 2018

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**Institution** Member of Specialized Council 032 «Control, Automation Systems and Electronics» at the State Engineering University of Armenia

**Period of time** 2006 - 2007

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## State awards and honorary titles

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2009 Gold Medal of Yerevan State University

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## Publications

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*Article*

**THE MOORE-PENROSE INVERSE OF TRIDIAGONAL SKEW-SYMMETRIC MATRICES. I**

Yu.R.Hakopian, A.H.Manukyan, H.V.Mikaelyan

Proceedings of the YSU. Physical and Mathematical Sciences 2023 1-8

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*Article*

**The Moore-Penrose inverse of tridiagonal skew-symmetric matrices. II**

Yu.R. Hakopian, A.H. Manukyan, H.V. Mikaelyan

Proceedings of the YSU. Physical and Mathematical Sciences 2023 31-43

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*Manual*

**Введение в метод конечных элементов**

Ю.Р.Акопян

2022 142

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*Article*

**Analytical Inversion of Tridiagonal Hermitian Matrices**

Yuri R. Hakopian, Avetik H. Manukyan

Mathematical Problems of Computer Science 2022 7-19

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*Manual*

**Մատրիցային անալիզի տարրեր**

Յուրի Ռուբենի Հակոբյան

2022 224

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*Article*

**Computing the Moor-Penrose Inverse for Bidiagonal Matrices**

Yuri Hakopian

Могилянский математический журнал (Mohyla Mathematical Journal) 2019 11-23

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*Book*

**Թվային մեթոդներ**

Յուրի Հակոբյան

2019 462

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*Book*

**Թվային մեթոդներ**

Յու.Հակոբյան

2019 462

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*Article*

**Moore-Penrose inverse of bidiagonal matrices.IV**

Yu.R. Hakopian, S.S.Aleksanyan

Proceedings of the YSU. Physical and Mathematical Sciences 2016 23-29

<http://www.y-su.am/science/en/journals>

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*Article*

**Moore-Penrose inverse of bidiagonal matrices.III**

Yu.R.Hakopian, S.S.Aleksanyan

Proceedings of the YSU. Physical and Mathematical Sciences 2016 12-21

<http://www.y-su.am/science/en/journals>

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*Article*

**Moore-Penrose inverse of bidiagonal matrices.IV**

Yu.R.Hakopian, S.S.Aleksanyan

Proceedings of the YSU. Physical and Mathematical Sciences 2016 23-29

<http://www.y-su.am/science/en/journals>

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*Article*

**THE MOORE-PENROSE INVERSE OF BIDIAGONAL MATRICES. I**

Yu.R. Hakopian, S.S.Aleksanyan

Proceedings of the YSU. Physical and Mathematical Sciences 2015 11-20

<http://www.y-su.am/science/en/journals>

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*Article*

**Moore-Penrose inverse of bidiagonal matrices.II**

Yu.R.Hakopian, S.S.Aleksanyan

Proceedings of the YSU. Physical and Mathematical Sciences 2015 8-16

<http://www.y-su.am/science/en/journals>

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