

# Curriculum vitae (CV) of J. Karhumäki

- 1. Name and year of birth:** Juhani Karhumäki, 1949
- 2. Degrees:**
  - M.Sc. in mathematics 1973, Univ. of Turku
  - Ph.D. in mathematics, automata theory, 1976, Univ. of Turku
- 3. Adjunct positions:** Docent in mathematics, Univ. of Turku, 1980
- 4. Present employment:**
  - Professor in discrete mathematics (salary category 11) 1.3.1998–31.8.2017, and Head of the Department of Mathematics, 1998–2015
  - Professor emeritus 1.9.2017–
- 5. Previous employments:**
  - Junior researcher of Academy of Finland, 1980–85
  - Senior assistant, Univ. of Turku, 1986–89
  - Professor, Univ. of Turku, (acting), 1989–1998
- 6. Visits abroad:**
  - Post Doctoral Fellow
    - in Univ. of Waterloo, Canada, 1979 (7 months)
  - Visiting associate professor
    - in Univ. of Waterloo, Canada, 1981 (4 months)
    - in Univ. of Waterloo, Canada, 1985 (12 months)
    - in Univ. of South Carolina, USA, 1988 (6 months)
  - Visiting professor
    - in Univ. of Lille, France, 1991 (3 months)
    - in Univ. of Paris VII, France, 1994 (1 month)
    - in Univ. of Paris VII, France, 1995 (1 month)
    - in Univ. of Paris VII, France, 1999 (1 month)
    - in Univ. of Paris VII, France, 2001 (1 month)
    - in Univ. of Marne-la-Vallee, France, 2002 (1 month)
    - in Univ. of Marseille, France, 2003 (1 month)
    - in Univ. of Waterloo, Canada, 2003 (1 month)
    - in Univ. of Bordeaux, France, 2003 (1 month)
    - in Univ. of Paris VII, France, 2008 (1 month)
    - in Univ. of Marseille, France, 2009 (1 month)
    - in Univ. of ETH Zürich, Switzerland, 2009 (1 month)
    - in Univ. of Marne-la-Vallee, France, 2010 (1 month)
    - in Univ. of Marne-la-Vallee, France, 2016 (1 month)
- 7. Scientific and administrative positions:**
  - Member of University of Turku, Research council, 2000–2008
  - Member of National Committee of International Union of Mathematicians, 2010–2015

## 8. Awards & memberships:

Member of Finnish Academy of Sciences 2000–

Member of Academia Europaea (Informatics) 2006–

Second Kudlek award for 5 full talks in ICALP; currently 3rd most frequent speaker of all ICALPs

## 9. Most important funding:

Academy of Finland

Research scholarship to University of Paris VI (3 months, 1982)

Advanced Research Fellow: 6 months in 1988, 6 months in 1995, 12 months in 2002–03, 12 months in 2008–09

1993–1994	242000	FIM	research grant
1996	150000	FIM	research grant
1997–1998	366800	FIM	research grant
1999	650000	FIM	research grant
1999–2001	130000	FIM	for DAAD cooperation with Aachen Technical University
2000	300000	FIM	research grant
2001–2003	1080000	FIM	research grant
2004–2007	200000	EUR	research grant
2004	13000	EUR	for ICALP conference
2005–2007	153000	EUR	for post doc researcher position
2005–2009	10000/year	EUR	for ESF Programme
2006–2007	80000	EUR	for International Visitors Program
2006	8000	EUR	for DLT conference
2008–2011	240000	EUR	research grant
2010–2015	1482000	EUR	for FiDiPro
2012–2016	500000	EUR	research grant
2014–	1800	EUR	for visits to Steklov Inst. at St. Petersburg
2015–2016	2000	EUR	for visits to Steklov Inst. at St. Petersburg
2015–2016	7000	EUR	for visits of Russian scientists from Steklov Inst. at St. Petersburg to Turku

Technology Development Center (and industry):

1999	500000	FIM	for industrial co-operation with Nokia
2000	766000	FIM	for industrial co-operation with Nokia etc.
2001	725000	FIM	for industrial co-operation with Nokia etc.

Finnish Academy of Sciences (Väisälä Foundation):

2001	70000	FIM	grant
2002	10000	EUR	grant
2003	5000	EUR	grant
2004	6000	EUR	for ICALP conference
2006–2007	25000	EUR	for International Visitors Program
2008–2009	15000	EUR	for a post doc researcher

Finnish Cultural Foundation:

2004	8000	EUR	for ICALP conference
2006–2007	50000	EUR	for International Visitors Program
2016	4000	EUR	for Finnish Math Days

## 10. Research leadership and supervised students:

Prof. J. Karhumäki has been the leader of automata theory group (currently FUNDIM Centre; [www.math.utu.fi/projects/fundim/](http://www.math.utu.fi/projects/fundim/)) of the Department of Mathematics and Turku Centre for Computer Science since 1999, and the director of the national thematic year “Algorithmic and Discrete Mathematics”, 2007–2008. He was also responsible for a FiDiPro program for 2010–2015.

Ph.D. students:

Vesa Halava	(finished 2002; together with T. Harju)
Arto Lepistö	(finished 2002)
Jan Manuch	(finished 2002)
Ion Petre	(finished 2002)
Mika Hirvensalo	(finished 2003)
Dirk Nowotka	(finished 2004; together with T. Harju)
Tommi Meskanen	(finished 2005; together with A. Renvall)
Peter Leupold	(finished 2006; in Tarragona, Spain; jointly with V. Mitrana)
Elena Czeizler	(finished 2007)
Kalle Saari	(finished 2008)
Petri Salmela	(finished 2009)
Aleksi Saarela	(finished 2012)
Mari Huova	(finished 2014)
Markus Whiteland	(expected to finish 2017)

Official opponent or reporter

for Ph.D. thesis:

Veikko Keränen	1986, Oulu
Yael Maon	1985, Tel Aviv
Helen Komen	1985, Waterloo
Wojciech Plandowski	1996, Warsaw
Ismo Hakala	1997, Oulu
Francis Wlasinski	2002, Amiens
Joachim Kupke	2006, ETH Zürich
Rodrigo de Sauga	2008, ENST, Paris
Leide Lace	2008, Riga
Vasilijs Kravcevs	2008, Riga
Tim Smith	2015, North Eastern University, Boston

for habilitation thesis:

Jean Neraud	1994, Rouen
Gregory Kucherov	2000, Nancy
Sebastian Seibert	2004, Aachen
Dirk Nowotka	2008, Stuttgart

for Dr. of Science degrees:

Villiam Geffert	2001, Slovakia
Imrich Vrto	2002, Slovakia
Ondrej Sykora	2002, Slovakia

## 11. Other scientific positions and achievements:

Member of board of European Association for Theoretical Computer Science, 1994–2014

Member of editorial boards of

Math. Slovaca, 1991–1996

RAIRO Theoretical Informatics and Applications, 1999–2010

J. Universal Computer Science, 2000–  
 Intern. J. Computer Mathematics, 2004–2010  
 Discrete Mathematics & Theoretical Computer Science, 1996–  
 International Journal of Foundations of Computer Science, 2000–  
 Fundamenta Informaticae, 2011–  
 Theoretical Computer Science A, 2010–  
 Computer Science Review (area editor in formal languages), 2006–  
 Member of Advisory Board of Monographs in Theoretical Computer Science, An  
 EATCS Series  
 Member of Gödel Prize committee in 2002-2004, and the chair in 2004  
 Steering committee member of  
   WORDS conference, 1997–; chair 2011–  
   DLT (Developments in Language Theory) conference, 2002–; chair 2010–  
   CSR (Computer Science in Russia) conference, 2006–  
 PC memberships of more than 70 international conferences, e.g.,  
   in ICALP (Int. Coll. on Automata, Languages and Programming) 6 times, once  
   chair  
   in STACS (Int. Symp. on Theoretical Aspects of Computer Science) 4 times  
   in MFCS (Math. Foundations of Computer Science) 10 times  
   in DLT (Developments in Language Theory) 11 times, twice chair  
   in CSR (Computer Science in Russia) 3 times, once chair  
   in WORDS (Conference on CoW) 10 times, twice chair  
   in RuFiDiM (Russian-Finnish Symposium on Discrete Mathematics) 4 times;  
   initiator with Y. Matiyasevich in 2011  
   in WCC world congress, chair of theory track: Theoretical Computer Science  
   in CIAA (Int. Conf. on Implementation and Application of Automata)  
 Organizer of Oberwolfach minisymposium on CoW, 2010  
 Referee in most of the theory journals of my area; no records kept  
 Regular reviewer for grant applications of national agencies such as NSERC in Canada,  
 Czech Science Foundation, ARRS in Slovenia and MIUR in Italy; in 2012 three  
 times for NSERC, 11 times for ARRS and once for MIUR.

## 12. Scientific and societal impact (a few years old):

J. Karhumäki has published according to MathSciNet 194 articles and according to  
 DBLP 181 articles; the total number of publications is around 250. In MathSciNet he is  
 cited 578 times by altogether 392 authors, and in Google Scholar 3664 times. The most  
 cited articles of the author have 179, 70, 43, 43 citations in WoS, the articles numbered  
 as [93] [61] [26] [72] in the list of publications. The author has edited altogether 16  
 special issues of Theoret. Comput. Sci., Fund. Informaticae and Theoret. Informatics  
 and Applications, as well as 9 editions of Springer Lecture Notes in Computer Science.  
 The number of Handbook Chapters he has written is 5. Since 1979, the author has  
 given over 100 talks in international conferences and workshops (including 33 in the  
 most prestigious European conferences ICALP (one invited), STACS, and MFCS  
 (one invited). The author was recently invited to Advisory Board of EATCS-Springer  
 bookseries “Monographs in Theoretical Computer Science” and “Texts in Theoretical  
 Computer Science”. The author was a board member of EATCS in 2015 and a steering  
 committee chair of both Developments in Language Theory (DLT) and Conference on  
 WORDS. He served three years in Gödel prize committee, one year as a chair.