

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) and Head of the Department of Mathematics, 1.3.1998–
- 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)
- 7. Scientific and administrative positions:**
 - Member of University of Turku, Research council, 2000–2008
 - Member of National Committee of International Union of Mathematicians, 2010–

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

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

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/) of the Department of
Mathematics and Turku Centre for Computer Science since 1999, and the di-
rector of the national thematic year “Algorithmic and Discrete Mathematics”,
2007–2008. Currently he is 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 (finishes May, 2012)

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 Wlasinki	2002, Amiens
Joachim Kupke	2006, ETH Zürich
Rodrige de Sauga	2008, ENST, Paris
Leide Lace	2008, Riga
Vasilijs Kravcevs	2008, Riga

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–

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 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) 9 times, once chair
in CSR (Computer Science in Russia) twice, once chair
in WORDS (Conference on CoW) 9 times, twice chair
in RuFiDiM (Russian-Finnish Symposium on Discrete Mathematics) twice; ini-
tiator with Y. Matiyasevich in 2011
WCC world congress, chair of theory track: Theoretical Computer Science
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:

J. Karhumäki has published according to MathSciNet 174 articles and according to DBLP 168 articles; the total number of publications is around 240. The h indices of the author are 16 and 25 according to Web of Science and Google Scholar. The total number of citations in the databases are around 840 and 2200, respectively (not counting in WoS the most cited article, a chapter Combinatorics of words in Handbook of Formal Languages (Springer 1997) which has there around 190 citations and in MathSciNet 99 citations; the reason it and another chapter on Morphisms with 53 citations in the same Handbook are not counted is that alphabetically the author is the second author!) In MathSciNet he is cited 434 times by altogether 234 authors. The most cited articles of the author have 55, 42, 40, 40 citations in WoS, the articles numbered as [61] [66] [72] [26] in the list of publications. The author has edited altogether 12 special issues of Theoret. Comput. Sci., Fund. Informaticae and Theoret. Informatics and Applications, as well as 7 editions of Springer Lecture Notes in Computer Science. The number of Handbook Chapters he has written is 5. In 1979–2012 the author has given around 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”