

# CURRICULUM VITAE

Ronald Michiel de Wolf

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Birth : January 28, 1973, in Zaandam, the Netherlands  
Nationality : Dutch

## I Current professional activities:

Senior researcher (tenured) at CWI in PNA6, the group of Harry Buhrman, and part-time full professor at the Institute for Logic, Language and Computation (ILLC) of the University of Amsterdam. My scientific interests include quantum computing, computational complexity, coding theory, and learning theory.

## II Education:

1985–1991: Gymnasium, Comenius Scholengemeenschap, Capelle a/d IJssel, Netherlands

1991–1996: Computer Science, Erasmus University of Rotterdam

June-1996: Master's degree Computer Science (*cum laude*)  
Thesis: Contributions to Inductive Logic Programming  
Advisor: Dr. Shan-Hwei Nienhuys-Cheng

1993–1997: Philosophy, Erasmus University of Rotterdam

July-1997: Master's degree Philosophy (*cum laude*)  
Thesis: Philosophical Applications of Computational Learning Theory  
Advisor: Dr. Gert-Jan Lokhorst

1997–2001: PhD studies in Computer science, CWI and University of Amsterdam

September 6, 2001: PhD Computer Science, University of Amsterdam (*cum laude*)  
Thesis: Quantum Computing and Communication Complexity  
Advisors: Profs. Harry Buhrman and Paul Vitányi

## III Employment record:

Aug 1997 – Aug 2001: PhD student at University of Amsterdam and CWI.  
Working visits to U of Oxford, Calgary, LRI (Paris), and Waterloo.

Sep 2001 – Aug 2002: Postdoc at UC Berkeley, in the group of Umesh Vazirani.  
Working visits to Caltech and MIT.

Sep 2002 – Dec 2006: Postdoc at CWI

Working visits to Montréal, LRI (Paris, several times).

Jan 2007 -  $\infty$ : Senior researcher (tenured) at CWI

Working visits to U of Tel Aviv (2 $\times$ ), Tata Institute (Mumbai), MIT, Paris-Sud and Paris-Diderot (4 $\times$ ), UCSB, NEC Princeton, CQT Singapore (2 $\times$ ).

Mar 2011 -  $\infty$ : Part-time full professor (0.2 fte) at University of Amsterdam

#### IV Teaching:

Courses taught:

2006 Combinatorics for information sciences (U of Amsterdam)

2008 Combinatorics with applications in computer science (Leiden U)

2011 Quantum computing (U of Amsterdam)

2012 Combinatorics with computer science applications (U of Amsterdam)

Courses TAed during PhD:

1997/8 Introduction to logic for computer scientists (U of Amsterdam)

1999 Kolmogorov complexity (U of Amsterdam)

2000/3 Quantum computing (U of Amsterdam)

#### V Students:

Advisor (promotor) of PhD students:

started 2009 G. Scarpa (CWI)

Co-advisor (co-promotor) of PhD students:

2006 R. Špalek (U of Amsterdam, Quantum Computing)

Opposed in PhD defenses of:

2002 W. van Dam (U of Amsterdam, Quantum computing)

2004 H. Röhrig (U of Amsterdam, Quantum computing)

2006 T. Lee (U of Amsterdam, Complexity theory)

2008 S. Wehner (U of Amsterdam, Quantum computing)

2008 F. Unger (U of Amsterdam, Quantum computing)

2011 J. Briët (U of Amsterdam, Quantum computing)

2012 E. Dassen (U of Leiden, Mathematics)

2012 D. Garcia-Soriano (U of Amsterdam, Complexity theory)

Advisor or co-advisor of MSc students:

1998 J. Verbeek (U of Amsterdam, Minimum Description Length principle)

- 2001 M. de Graaf (U of Amsterdam, Quantum computing)
- 2004 S. Wehner (U of Amsterdam, Quantum computing)
- 2006 J. Cirasella (U of Amsterdam, Quantum computing)
- 2006 J. de Vos (U of Amsterdam, Quantum computing)
- 2008 D. Chu (U of Amsterdam, Quantum computing)

## VI Organizational, editorial, refereeing, and PC work:

I'm a managing editor of the open-access journal *Theory of Computing* and an editor of *Quantum Information & Computation*.

Program committee member of QIP 2007, Complexity 2008, ICALP 2009, SOFSEM 2010, Complexity 2010, STACS 2011, MFCS 2011, QIP 2012, TQC 2012, STOC 2013.

2007-11: Steering committee member of the annual QIP conference

Refereed several hundreds of papers for journals (J. ACM, SIAM J of Computing, Theoretical Computer Science, ACM Trans on Computational Logic, Algorithmica, IPL, J of Automated Reasoning, J of Logic Programming, Cryptology, ToC, QIC, IEEE Trans on Information Theory, Phys Rev Letters, Phys Rev A)

and conferences (FOCS, STOC, SODA, Complexity, ICALP, STACS, Crypto, MFCS, FSTTCS, SOFSEM, ILP, QIP).

Refereed grant proposals for: US-Israel Binational Science Foundation, Czech Science Foundation, Research Grants Council of Hong Kong.

## VII Organizational work:

I organize the PNA6 seminar (since 2002) and the CWI Scientific Meeting (since 2007).

Since June 2010 I chair the Works Council ("Ondernemingsraad") at CWI.

2001 Co-organizer of 4th Workshop on Quantum Information Processing (QIP 2001), Amsterdam.

2003 Co-organizer of 1st RESQ meeting, CWI, Amsterdam

2004 Co-organizer of Quantum Information Processing workshop at Lorentz Center, Leiden.

## VIII Awards and grants:

1995 Best paper award at 7th Dutch Artificial Intelligence Conference (NAIC'95) for *Tidying up the Mess Around the Subsumption Theorem in Inductive Logic Programming*, with S-H. Nienhuys-Cheng.

2001 Talent-grant from NWO for 1-year stay as postdoctoral researcher at UC Berkeley.

2003 European Research Consortium for Informatics and Mathematics (ERCIM) Cor Baayen Award, for "most promising young researcher in computer science and applied mathematics from one of the ERCIM countries".

2005-2008 3-year Veni-grant from NWO.

2008-2013 5-year Vidi-grant from NWO.

2000- $\infty$  Participated in a number of EU-funded projects: QAIP, RESQ, QAP, workpackage-leader in QCS.

2012 Best Paper Award (shared with another paper) at ACM STOC'12 for *Linear vs. Semidefinite Extended Formulations: Exponential Separation and Strong Lower Bounds*, with S. Fiorini, S. Massar, S. Pokutta, H. Raj Tiwary.

#### **IX Publications:**

An up-to-date list is available at <http://homepages.cwi.nl/~rdewolf>

#### **X Languages:**

Dutch (mother tongue), English (fluent), German (reasonable), French (reasonable)