

## Curriculum vitae of Jan van Eijck

**Name** Jan van Eijck, initials D.J.N. (Dingeman Johannes Norbertus), born 6 September 1951 in The Netherlands. Nationality: Dutch

**Discipline** Applied logic.

**Position, Intellectual History** Senior Researcher at CWI (Centre for Mathematics and Computer Science), Amsterdam, and part time full professor of computational linguistics at Uil-OTS (Research Institute for Language and Speech), Utrecht. Teaches the course on Software Testing in the Master of Software Engineering curriculum at the University of Amsterdam. Former scientific director of the Dutch Research School in Logic (1997 — 2002). Former employee of SRI-International (Cambridge UK Laboratory), where he was involved in the design of an industrial scale natural language processing project. Before that, he held an associate professorship at the University of Tilburg. PhD from the University of Groningen (1985).

**Personal** Married to Heleen Verleur (since 27 October, 1997), with twin daughters Gaia and Rosa (born on November 15, 2002).

### Five Key Publications

1. ‘Logics of Communication and Change’, in *Information and Computation*, Vol. 204, number 11, pp. 1620–1662, 2006 (together with Johan van Benthem and Barteld Kooi).
2. ‘Normal Forms for Characteristic Functions on  $n$ -ary Relations’, *Journal of Logic and Computation* 15, 2005, pp 85–98.
3. *The Haskell Road to Logic, Maths and Programming*, Texts in Computing, College Publications, London 2004, x + 426 pp (together with Kees Doets).
4. *Discourses on Games, Action and Social Software*, Amsterdam University Press, 2009 (editor, together with Rineke Verbrugge, and author or co-author of ten of the thirteen chapters), available from [www.cwi.nl/~jve/nias/discourses/discourses.pdf](http://www.cwi.nl/~jve/nias/discourses/discourses.pdf).

5. *Computational Semantics with Functional Programming*, Cambridge University Press, Cambridge 2010, xv + 405 pp (together with Christina Unger). See [www.cambridge.org/vaneijck-unger](http://www.cambridge.org/vaneijck-unger)

Each of these key publications exemplifies a key interest, as follows:

1. **Applications of epistemic logic.** Overall goal is the analysis of communication and its logical effects in a broad sense, including the development of epistemic model checking tools. This interest area is being pursued right now in the KISEN project, with Krzysztof Apt, Floor Sietsma, Sunil Simon. Floor Sietsma and Jan van Eijck are preparing a book proposal for Cambridge University Press for a textbook that covers the whole range in this area, from theory all the way to tool development.
2. **Formal language theory and computational linguistics:** Follow-up work is being pursued right now together with dr. Joost Zwarts from the University of Utrecht. Also, a PhD student from Iran will pursue part of her PhD research under supervision of Van Eijck at CWI. Goal is the development of a computational linguistics thesaurus for Farsi.
3. **Functional programming and applied logic:** The *Haskell Road* textbook is being used right now in the Software Testing course for the Master Programme in Software Engineering at the University of Amsterdam. The approach of the textbook is also being used in *Logic in Action — Implementations* companion volume for the *Logic in Action* textbook/website project (see [www.logicinaction.org](http://www.logicinaction.org)). Also, there is a plan to update and expand the *Haskell Road* for a second edition.
4. **Games, action and social software:** This interest started with the successful NIAS project that Jan van Eijck and Rineke Verbrugge (team leaders) carried out from September 2006 until January 31, 2007. Right now, Verbrugge and Van Eijck are finishing a second book, as further documentation of the work that was started during the NIAS project. Van Eijck and Verbrugge are also in the process of writing an entry on ‘Social Software’ for the Stanford Encyclopedia of Philosophy.
5. **Computational semantics:** Ambition for the future is to connect the two areas of computational semantics and formal analysis of com-

munication. This will be the focus of Van Eijck's work in computational semantics for the near future.

## Education

**6 September 1951** Born in Gilze-Rijen (N.Br.), The Netherlands

**27 April 1970** School graduation ('Eindexamen gymnasium beta'), Gymnasium Bernrode, Heeswijk-Dinther (N.Br.), The Netherlands

**12 September 1973** BA Dutch Language and Literature ('Kandidaatsexamen Nederlandse taal- en literatuurwetenschap'), Vrije Universiteit, Amsterdam

**1972–1973** Philosophy program at Universiteit van Amsterdam

**22 June 1978** MA Philosophy ('Doctoraalexamen filosofie'), Rijksuniversiteit Groningen, (specialisations: Logic and Philosophy of Science, History of Logic, Dutch Language and Literature)

**14 February 1985** Ph. D. at Centrale Interfaculteit, Rijksuniversiteit Groningen. Title of dissertation: "Aspects of Quantification in Natural Language". Promotors: Johan van Benthem and Henk Verkuyl.

## Employment

**September 1978 – September 1979** Part-time job as scientific librarian at the library of the institute of philosophy, Filosofisch instituut, Rijksuniversiteit Groningen

**August 1978 – December 1982** Part-time job as teacher of Philosophy and Dutch Language and Literature at Noordelijk Avondcollege, Groningen

**August 1980 – July 1984** Research assistant employed by ZWO (Dutch organisation for the advancement of pure research), project 'Quantification in Natural Language'

**September 1984 – June 1987** Lecturer ('universitair docent') Computational Linguistics at Subfaculteit Letteren, Katholieke Universiteit Brabant

**September 1986** Tenure as senior lecturer (‘Universitair Hoofddocent’) for computational linguistics at Subfaculteit Letteren, Katholieke Universiteit Brabant

**1 July 1987 – 1 October 1989** Senior Researcher at SRI International, Cambridge Computer Science Research Centre

**September 1988 – September 1989** Part-time lecturer at the Computer Laboratory of the University of Cambridge (lectures on Logic and Formal Language Theory for the M.Phil course ‘Computer, Speech & Language’ and Ph.D supervision)

**From 1 November 1989** Senior researcher at CWI (Centre For Mathematics and Computer Science), Amsterdam, for Logic and Language.

**From 1 December 1990** Part-time full professor at OTS (Research Centre for Language and Speech), State University of Utrecht, for ‘logical aspects of computational linguistics’.

#### **Academic Functions**

**From July 1993** Member of the board of the Dutch Graduate School in Logic.

**November 1995** Visiting professor ‘Université Paris VII, UFR Linguistique — TALANA’.

**From Spring 1996 until December 2003** Secretary of the Board of the Dutch Society for Logic (‘Nederlandse Vereniging voor Logica’).

**From July 1993 until November 2004** Member of the Scientific Board of the Dutch Research School for Logic (OzsL).

**From 1 January 1997 until Summer 1997** Interim Scientific Director of the Dutch Research School for Logic (OzsL).

**From Summer 1997 until November 2002** Scientific Director of the Dutch Research School for Logic (OzsL).

**Fall 2001 and Spring 2002** Chairman of the VSNU Visitation Committee for Dutch University Curricula in Artificial Intelligence.

**Summer 2004** Chairman of the Research Assessment Committee for the Centre for Language and Cognition (CLCG), Groningen.

**From Fall 2004** Member of the Teaching Staff for the Master Program Software Engineering at University of Amsterdam.

**From 1 September 2006** Fellow of Netherlands Institute for Advanced Studies (NIAS).

**1 September 2006 – 31 January 2007** Theme Leader of NIAS Project “Games, Actions and Social Software” (together with Rineke Verbrugge).

**2009-2010** Member of the international quality assessment committee for Computer Science and AI in Flanders, Belgium.

**June 2006 – July 2010** Coordinator of NIAS project VEMPS.

**Member of numerous PhD Committees**

**Supervisor of numerous Master theses** with topics ranging from computational linguistics to logic, theoretical computer science and software engineering.

**Program Committee member of numerous conferences** Organizer of two Lorentz workshops in Leiden (one with Rineke Verbrugge in 2006, one with Philippe Balbiani and Hans van Ditmarsch in 2008).

**PhD Supervisions (with dates of PhD completion)**

**15 January 1993** Promotor of the PhD thesis of Gert-Jan van Noord, “Reversibility in Natural Language Processing”, Utrecht University (together with Jan Landsbergen).

**22 September 1994** Promotor of the PhD thesis of Kees Vermeulen, “Explorations of the Dynamic Environment”, Utrecht University (with Albert Visser as co-promotor).

**20 June 1995** Promotor of the PhD Thesis of Wilfried Meyer Viol, “Instantial Logic”, Utrecht University (with Johan van Benthem as second promotor).

- July 1995** Promotor of the PhD Thesis of Giovanna Cepparello, “Studies in Dynamic Logic”, Scuola Normale Superiore, Pisa (with Johan van Benthem, M.L. Dalla Chiara and E. Moriconi as other promotor).
- 7 November 1997** Promotor of the PhD Thesis of Annius Groenink, “Surface without Structure”, Utrecht University (with W.C. Rounds from the University of Michigan as second promotor).
- 29 May 2000** Promotor of the PhD Thesis of Stijn van Dongen, “Graph Clustering by Flow Simulation”, Utrecht University (with Michiel Hazewinkel as other promotor).
- 13 December 2001** Promotor of the PhD Thesis of Marc Pauly “Logic for Social Software”, University of Amsterdam, with Johan van Benthem as other promotor.
- Nov 21, 2003** Promotor of the PhD Thesis of Rick Nouwen, “Plural pronominal anaphora in context”, Uil-OTS, Utrecht University. (with Henriette de Swart as other promotor).
- Dec 4, 2003** Promotor of the PhD Thesis of Juan Heguiabehe “Putting Logic to Work”, ILLC, University of Amsterdam (with Maarten de Rijke as co-promotor).
- July 9, 2007** Promotor of the PhD Thesis of Matteo Capelletti, “Parsing with Structure Preserving Categorical Grammars”, Utrecht University (with Michael Moortgat as other promotor).
- March 31, 2010** Promotor of the PhD Thesis of Christina Unger, “A Computational Approach to the Syntax of Displacement and the Semantics of Scope”, Uil-OTS, Utrecht University (with Eric Reuland as other promotor).
- September 21, 2010** Promotor of the PhD Thesis of Yanjing Wang, “Epistemic Modelling and Protocol Dynamics”, ILLC, University of Amsterdam.

#### **Books and edited volumes**

- Games, Actions and Social Software** edited by Jan van Eijck and Rineke Verbrugge, to appear (2011).

**Computational Semantics with Functional Programming** Cambridge University Press, Cambridge 2010, xv + 405 pp (together with Christina Unger).

**Discourses on Games, Action and Social Software** Amsterdam University Press, 2009 (editor, together with Rineke Verbrugge, and author or co-author of ten of the thirteen chapters).

**Logic in Action** Electronic book, available from [www.logicinaction.org](http://www.logicinaction.org) (together with Johan van Benthem, Hans van Ditmarsch and Jan Jaspars).

**Logica in Actie** Academic Service, 2009 (together with Johan van Benthem and Hans van Ditmarsch).

**Logic and Information Security** Special issue of the Journal of Applied Non-Classical Logics, edited by Philippe Balbiani, Hans van Ditmarsch, and Jan van Eijck, 2009.

**Inzien en Bewijzen** Amsterdam University Press 2005 (with Albert Visser).

**The Haskell Road to Logic, Maths and Programming** College Publications, 2004 (together with Kees Doets).

**Logic Colloquium '99** A.K. Peters, Lecture Notes in Logic, 2004 (edited together with Albert Visser and Vincent van Oostrom).

**Denkende Machines** Amsterdam University Press 2002 (with Jan Jaspars, Jan Ketting and Marc Pauly).

**Quantifiers, Logic, and Language** CSLI Lecture Notes, edited by J. van der Does and Jan van Eijck (1996).

**Logic and Information Flow** MIT Press, Cambridge Mass, 1994 (edited by Jan van Eijck and Albert Visser).

**Logics for AI** Proceedings of the European Workshop JELIA'90, edited by Jan van Eijck, Springer LNAI 478, 1990.

**List of publications (incomplete list, back to 2000)**

**2010** [1] [2] [3] [4] [2] [5] [6] [7] [8]

**2009** [9] [10] [11] [12] [13] [14] [15] [16] [17] [18] [19] [20] [21] [22] [23] [24]

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**2007** [27] [28] [29] [30] [31] [32]

**2006** [33] [34] [35] [36]

**2005** [37] [38] [39] [40] [41]

**2004** [42] [43] [44] [45]

**2003** [46] [47] [48]

**2002** [49] [50] [51] [52] [53] [54] [55]

**2001** [56] [57] [58] [59] [60] [61] [62] [63] [64] [65]

**2000** [66] [67] [68] [69] [70] [71] [72] [73]

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- [2] Yanjing Wang, Floor Sietsma, and Jan van Eijck. Logic of information flow on communication channels. In *Proceedings of AAMAS-2010, the 9th International Conference on Autonomous Agents and Multiagent Systems*, Toronto, May 2010 (to appear).
- [3] Jan van Eijck, Yanjing Wang, and Floor Sietsma. Composing models. In Wiebe van der Hoek, editor, *Online Proceedings of LOFT 2010*, <http://loft2010.csc.liv.ac.uk/>, 2010.

- [4] Yanjing Wang. *Epistemic Modelling and Protocol Dynamics*. PhD thesis, ILLC, Amsterdam, 2010.
- [5] Hans van Ditmarsch, Jan van Eijck, and William Wu. One hundred prisoners and a lightbulb — logic and computation. In F. Lin and U. Sattler, editors, *Proceedings of KR 2010 Toronto*. AAAI Press, 2010.
- [6] H.P. van Ditmarsch, J. van Eijck, F. Sietsma, and Y. Wang. On the logic of lying. In Jan van Eijck and Rineke Verbrugge, editors, *Games, Action and Social Software*. Springer, 2010 (to appear).
- [7] Hans van Ditmarsch, Jan van Eijck, and William Wu. Verifying one hundred prisoners and a lightbulb. *Journal of Applied Non-classical Logics*, 2010 (to appear).
- [8] Jan van Eijck and Hans Kamp. Discourse representation in context. In *Handbook of Logic and Language*. Elsevier, 2010.
- [9] J. van Eijck and R. Verbrugge, editors. *Discourses on Social Software*, volume 5 of *Texts in Logic and Games*. Amsterdam University Press, Amsterdam, 2009.
- [10] Johan van Benthem and Hans van Ditmarsch en Jan van Eijck. *Logica in Actie*. Academic Service, 2009.
- [11] Jan van Eijck and Rohit Parikh. *Discourses on Social Software*, chapter What is Social Software?, pages 37–47. Amsterdam University Press, 2009.
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- [13] Jan van Eijck. *Discourses on Social Software*, chapter On Social Choice Theory, pages 71–85. Amsterdam University Press, 2009.
- [14] Jan van Eijck and Martin van Hees. *Discourses on Social Software*, chapter Ends and Means, Values and Virtues, pages 87–98. Amsterdam University Press, 2009.
- [15] Hans van Ditmarsch, Jan van Eijck, and Rineke Verbrugge. *Discourses on Social Software*, chapter Common Knowledge and Common Belief, pages 99–121. Amsterdam University Press, 2009.

- [16] Johan van Benthem and Jan van Eijck. *Discourses on Social Software*, chapter Game Theory, Logic and Rational Choice, pages 123–134. Amsterdam University Press, 2009.
- [17] Francien Dechesne, Jan van Eijck, Wouter Teepe, and Yanjing Wang. *Discourses on Social Software*, chapter What is Protocol Analysis?, pages 135–146. Amsterdam University Press, 2009.
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- [22] Jan van Eijck and Albert Visser. *The Stanford Encyclopedia of Philosophy*, chapter Dynamic Semantics. Stanford University, winter 2009 edition edition, 2009.
- [23] Yanjing Wang, Lakshmanan Kuppusamy, and Jan van Eijck. Verifying epistemic protocols under common knowledge. In ACM, editor, *TARK '09: Proceedings of the 12th Conference on Theoretical Aspects of Rationality and Knowledge*, pages 257–266, 2009.
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