

Personal details

Title(s), initial(s), first name, surname: Dr. M.E.J., Maartje, Raijmakers
Male/female: Female
Date and place of birth: 16/03/1967 Vessem CA
Nationality: Dutch
Children: 3 children (1999, 2001, 2005).

Master's ('Doctoraal')

University/College of Higher Education: Department of Philosophy, University of Amsterdam. Date: 24/08/1992, Cum Laude
Main subject: Philosophical Logic and Artificial Intelligence. Master thesis supervision: Pauline Hogeweg (Theoretical Biology, University Utrecht) & Frank Veltman (Philosophical Logic, University of Amsterdam).

Doctorate

University/College of Higher Education: Department of Psychology, University of Amsterdam. Date: 19/12/1996, Cum Laude.
Supervisor ('Copromotor' & 'Promotor'): Prof. dr. P. C. M. Molenaar & Prof. dr. M.W. van der Molen. Title of thesis: Epigenesis in neural network models of cognitive development.

Work experience since graduating

- PhD. (Assistent in Opleiding), Fac. Psychology, UvA (01/09/1992 until 31/08/1996), fte = 1.0, fixed term: *Epigenesis in neural network models of cognitive development*.
- Post-Doc SGW/NWO, Fac. Psychology, UvA (01/04/1997 – 31/03/1999; fte = 1.0, fixed term).
Personal grant SGW, NWO: *Bifurcation analysis of neural network models of cognitive development*.
- Post-Doc MaGW/NWO, Fac. Psychology, UvA (01/04/1999 – 31/03/2002; fte = 1.0 until 10/1999, fte = 0.8, fixed term)
Personal grant MaGW, NWO: *Experimental-psychological and statistical validation of cognitive neural network models*.
- Post-Doc (KNAW-fellow), Dept. of Psychology, UvA (01/04/2002 – 31/03/2005; fixed term, fte = 0.8). Grant from the Royal Netherlands Academy of Art and Sciences: *Constructivist models of cognitive development*
- Post-Doc (extension of KNAW-fellowship), Dept. of Psychology, UvA (01/04/2005 – 31/03/2007; fte = 0.8, fixed term). Grant from the Royal Netherlands Academy of Art and Sciences: *Qualitative differences in categorization learning*.
- Assistant Professor (universitair docent), Dept. of Psychology, UvA (01/04/2007 – 01/01/2008; fte = 0.8, fixed term)
- Associate Professor (universitair hoofddocent), Dept. of Psychology, UvA (01/01/2008 – present; fte = 1.0 vanaf 01/08/2008, fixed term)

Supervisory responsibilities

- o Supervision graduating (research-) master/doctoraal students (1992 - present).
- o Supervision (co-promotor) PhD. I. Visser (1997 – 2002; Doctorate 16/05/2002). Title: *Rules and Associations: Hidden Markov models and neural networks in the psychology of learning*.
- o Supervision postdoc I. Visser with personal NWO-grant VENI (2003 – 2005). Project: *Implicit learning and explicit knowledge: the associative acquisition of rule following behaviour*
- o Supervision postdoc I. Visser in FAR6-project: ESF grant from the European Committee (01/01/2006 – 01/01/2008). Project: *The development of rational and associative learning: Statistical mixture*

models of sequential behavior.

- Supervision junior researcher T. van Schijndel at (Talentenkracht project March 2006 – October 2007).

Current Supervisory responsibilities

- Co-Supervision (co-promotor) of PhD. A. Ploeger (2004 – December 2008). Project: *Integrating developmental psychology, dynamical systems theory and evolutionary theory.*
- Supervision (co-promotor) of PhD. V. A. Schmittmann (2003 – March 2009). Project: *Analysis of qualitatively different learning forms by testing multi-modality and other catastrophe flags.*
- Supervision (co-promotor) PhD-student T. van Schijndel at (Talentenkracht/Aspasia-project October 2007 – October 2011).
- Supervisory responsibilities for postdoc D. Mandell at (VIDI-project October 2007 – October 2011).
- Supervision (co-promotor) PhD-student B. van Bers at (VIDI-project October 2007 – October 2012).
- Supervision postdoc Dr. M. Counihan at (TalentenKracht-project *kwartetten en kinderlogica* (January 2009 – December 2010)).

International activities

- 1992 – 1996 working visits Prof. dr. T. Kendler, UCSB, Santa Barbara, Prof. dr. S. Grossberg, Prof. Dr. G. Carpenter, dr. D. Bullock, Boston University; Prof. dr. K. Fischer, Harvard University.
- 1996 Summerschool complex systems Santa Fe Institute
- 2005-2007: International cooperation financed by the European Committee (prof. dr. B. French, University of Liege, Belgium; dr. D. Mareschal, Birbeck College, University of London, UK; Dr. E. Pothos, University of Crete, Greece/University; Professor S. E. G. Lea, University of Exeter, UK; Prof. dr. H.L.J. van der Maas, UvA, The Netherlands). Title: *From Associations to Rules in the Development of Concepts.*
- 2005: International cooperation in writing a proposal for an EC 6th Framework Programme - Priority 2 "Information Society Technologies". (Cristiano Castelfranchi, Università degli Studi di Siena; Dario Floreano, Ecole Polytechnique Federale de Lausanne; Angela Sirigu, Institut des Sciences Cognitives, Centre National de la Recherche Scientifique, Lyon; Frank Veltman, Universiteit van Amsterdam; Elizabeth J. Robinson, University of Warwick; Silvana Quaglini, Università degli Studi di Pavia; Stefania Manca, Istituto Tecnologie Didattiche, Consiglio Nazionale delle Ricerche, Genova). Proposal was not granted.

Active cooperations

- Bill Batchelder, University of Irvine (Mathematical modelling)
- Denis Mareschal, Birckbeck college, London (infant research)
- Stephen Lea, Exeter University (comparative research)
- Ulrike Hahn & Emmanuel Pothos, Cardiv University; Swansea University, (modelling implicit learning).
- Jay Coldren, University of Kansas (modelling infant data).
- Johan van Benthem, FNWI, UvA (project TalentenKracht, PostDoc)
- Jan-Willem Romeijn, Filosofie, RUG (project TalentenKracht, PostDoc, AiO)
- Elly Singer, POW, UvA/Ontwikkelingspsychologie UU (project TalentenKracht)
- NEMO Science Center (Afdeling educatie: Roos Franse, Amito Haarhuis, project TalentenKracht).

Other academic activities

- (1994-1996) Scientific committee Department of Psychology, UvA.

- Organisation of a one-day international workshop on *The Origin of Novelty* (October 2003).
- Member of the Master's educational committee of the Cognitive Science Center Amsterdam, which developed a accredited Master's program Cognitive Science (2002-2004). Currently, occasional adviser of the Master's program.
- Organisation of the 2006 summerschool for master's students organized by the Cognitive Science Center Amsterdam. Title: *Cognitive Developmental Disorders*. A three weeks summerschool including a one-day international symposium.
- Organisation meeting FAR6 (ism I. Visser), Januari 2007, including hands-on workshop.
- Organisation of the 2008 first Conference of the Dutch Society of Developmental Psychology (Vereniging Nederlandse Ontwikkelingspsychologie).
- Membership editorial board *Infant and Child Development* (2004-present).
- Occasional reviews for the following international journals: *Neural Networks*, *Philosophical Psychology*, *Developmental Science*, *Biological Psychology*, *Journal of Experimental Psychology: Learning, Memory and Cognition*, *Cognitive Psychology*. (conferences) IEEE ICDL 2007, EpiRob-08
- Occasional reviews for NWO-grants.
- Occasional review for NSF-grant.
- Member of the board of Section Developmental Psychology (2006 – present).
- Member of the cie. for moving offices Dept. of Psychology.
- Full membership of the IOPS research school (Interuniversity Graduate School of Psychometrics and Sociometrics).

Scholarships and prizes

- 1997 Personal post-doc grant SGW, NWO (post-doc 2 years): *Bifurcation analysis of neural network models of cognitive development*.
- 1999 Personal post-doc grant MaGW, NWO (post-doc 3 years): *Experimental-psychological and statistical validation of cognitive neural network models*.
- 2001 KNAW-fellowship (post-doc 2 years). Grant from the Royal Netherlands Academy of Art and Sciences: *Constructivist models of cognitive development*.
- 2003 Preparatory grant of the NWO Cognition Program, which resulted in an international workshop on *The Origin of Novelty*.
- 2004 PhD. Grant NWO in the Evolution & Behaviour program. Project: *Integrating developmental psychology, dynamical systems theory and evolutionary theory*. Co-applicant.
- 2004 Grant from the European Committee, EC Framework 6 project 516542 (NEST), *From Associations to Rules in the Development of Concepts*. International project with partners in 5 European countries. (At the UvA: post-doc 2 years + research assistant + additional financing).
- 2004 Extension of KNAW-fellowship (post-doc 2 years + additional financing). Grant from the Royal Netherlands Academy of Art and Sciences: *Qualitative differences in categorization learning*.
- 2006 NWO – VIDJ grant 2007-2012: The dynamics of simple rule learning in infants and preschoolers. € 600.000 (€ 400.000 from NWO). postdoc, .8 fte for 4 years. PhD. 1.0 fte for 4 years.
- 2006 NWO - ASPASIA grant for adequate representation of women in higher positions in science. - €100.000.
- 2006 Talentenkraft (TalentPower, VTB) Grant for research on the scientific reasoning of preschoolers - € 60.000 (3^e geldstroom)
- 2007 Talentenkraft (TalentPower, VTB) - Grant for research on the scientific reasoning of preschoolers € 100.000 (3^e geldstroom)
- 2007 Talentenkraft (TalentPower, VTB) - Grant for research on the scientific reasoning of preschoolers 2008-2010 – € 390.000 (3^e geldstroom)

Publications:

- International (refereed) journals

- Kant, KJ, Ploeger, A., Raijmakers M.E.J., Dolan, C.V., & van der Maas, H.L.J. (in press). Nonlinear Epigenetic Variance: Review and Simulations. *Developmental Science*.
- Ploeger, A., van der Maas, H.L.J., Raijmakers, M.E.J., & Galis, F. (in press). Why did the savant syndrome not spread in the population? A psychiatric example of a developmental constraint. *Psychiatry Research*.
- Visser, I., Pothos, E., and Raijmakers, M.E.J. (in press). Individual Strategies in Artificial Grammar Learning. *American Journal of Psychology*
- Ploeger, A., van der Maas, H.L.J., & Raijmakers, M.E.J. (2008). Is evolutionary psychology a metatheory for psychology? A discussion of four major issues in psychology from an evolutionary developmental perspective. *Psychological Inquiry*, 19, 1-18.
- Ploeger, A., van der Maas, H.L.J., & Raijmakers, M.E.J. (2008). Is evolutionary developmental biology a viable approach to the study of the human mind? (Reply to commentaries). *Psychological Inquiry*, 19, 41-48.
- van Duijvenvoorde, A.C.K., Zanolie K., Rombouts, S.A.R.B., Raijmakers, M.E.J., and Crone E.A. (2008). Evaluating the Negative or Valuing the Positive? Neural Mechanisms Supporting Feedback-Based Learning across Development. *J. Neurosci.* 28: 9495-9503
- Jansen, Brenda R. J., Maartje E. J. Raijmakers, and Ingmar Visser (2007). Belief change on the balance scale task. *Synthese*, 155(2), p. 211-236.
- Visser, I., Raijmakers, M.E.J. & Molenaar, P.C.M. (2007). Characterizing Sequence Learning: Online Measures and Hidden Markov Models Show Associations and Dissociations. *Memory & Cognition*, 35(6), p.1502-1517.
- Schmittmann, V. D., Visser, I., & Raijmakers, M. E. J. (2006). Multiple learning modes in the development of performance on a rules-based category-learning task. *Neuropsychologia*, 44 (11), 2079 -91.
- van der Maas, H.L.J., Dolan, C.V., Grasman, R.P.P.P., Wicherts, J.M., Huizinga, H.M., Raijmakers, M.E.J. (2006). A dynamical model of general intelligence: The positive manifold of intelligence by mutualism. *Psychological Review*, Vol. 113 (2006), p. 842-861
- van der Maas, H.L.J., M.E.J. Raijmakers, & Visser, I. (2005). Inferring the Structure of Latent Class Models Using a Genetic Algorithm. *Behavior Research Methods, Instruments & Computers*, 37(2), pp. 340-352.
- Raijmakers, M.E.J. & Molenaar, P.C.M. (2004). Modeling developmental transitions in Adaptive Resonance Theory. *Developmental Science*, 7(2), 149-157.
- Raijmakers, M.E.J., Jansen, B.R.J. & van der Maas, H.L.J. (2004). Rules and Development in Triad Classification Task Performance. *Developmental Review*, 24(3), 289-321.
- Visser, I., Raijmakers, M.E.J. & Molenaar, P.C.M. (2002) Fitting hidden Markov models to psychological data. *Scientific Programming*, 10, 185-199.
- Raijmakers, M.E.J., Dolan, C.V. & Molenaar, P.C.M. (2001). Finite Mixture Distribution Models of Simple Discrimination Learning. *Memory & Cognition*.
- Molenaar, P.C.M. & Raijmakers, M.E.J. (2000). A causal interpretation of Piaget's theory of cognitive development: Reflections on the relationship between epigenesis and nonlinear dynamics. *New ideas in psychology*, 18(1), p. 41-56.
- Molenaar, P.C.M. & Raijmakers, M.E.J. (2000). A phase transition between localist and distributed representation. *Behavioral & Brain Sciences*, 23 (4), 486.
- Van der Maas, L.J. van der & Raijmakers, M.E.J. (2000). A Phase Transition Model for Mother-Child Interaction: Comment on Olthof et al., 2000. *Infant and Child Development*, 9, 75-83.
- Visser, I., Raijmakers, M.E.J. & Molenaar, P.C.M. (2000). Confidence intervals for hidden Markov model parameters. *British Journal of Mathematical and Statistical Psychology*, 53, 317-327.

- Molenaar, P.C.M. & Raijmakers, M.E.J. (1999). Additional aspects of third source variation for the genetical analysis of human development and behaviour: a commentary on Eaves et al. *Twin Research*, 2, 49-62.
- Raijmakers, M.E.J. & Molenaar, P.C.M. (1997): Exact ART: A complete implementation of an ART network. *Neural Networks*, 10(4), 649-669.
- Raijmakers, M.E.J. (1997). Is the learning paradox refuted? *Behavioral and Brain Sciences*, 20(4), p. 573.
- Raijmakers, M.E.J. (1997): Book review van J.L. Elman, E.A. Bates, M.H. Johnson, A. Karmiloff-Smith, D. Parisi, K. Plunkett. Rethinking innateness: a connectionist perspective on development. *Acta Psychologica*, 97, p. 307-311.
- Raijmakers, M.E.J. van der Maas, L.J. & Molenaar, P.C.M. (1996): Numerical Bifurcation Analysis of Distance-Dependent On-Center Off-Surround Shunting Neural networks. *Biological Cybernetics*, 75, 495-507.
- Raijmakers, M.E.J., Van Koten, S., & Molenaar, P.C.M. (1996): On the validity of Simulating Stagewise Development by means of PDP Networks: Application of Catastrophe Analysis and an Experimental Test of Rule-Like Behavior. *Cognitive Science*, 20 (1): 101-136.
- Raijmakers, M.E.J. & Molenaar, P.C.M. (1995): How to decide whether a neural representation is a cognitive concept? *Behavioral & Brain Sciences*, 18 (4).

National (refereed) journals

- Molenaar, P.C.M. & Raijmakers, M.E.J. (1994) Reflections on Genetics, Epigenetics and Nonlinear Dynamics. *Tijdschrift voor Ontwikkelingspsychologie*, 21, (3).
- Raijmakers, M.E.J. & Molenaar, P.C.M. (1994): Simulating Transitions in Cognitive Development by Means of Neural Networks. *Tijdschrift voor Ontwikkelingspsychologie*, 21(3).

Contributions to books/proceedings

- Visser, Ingmar, Verena Schmittmann, & Maartje E.J. Raijmakers (accepted). Hidden Markov Models for Individual Time Series. To appear in Valsiner, J. & Molenaar, PCM (eds).
- Van der Maas, H. L. J., & Raijmakers, M. E. J. (in press). Transitions in cognitive development: prospects and limitations of a neural dynamic approach. In J.P. Spencer, M. Thomas, & J. McClelland (Eds). *Toward a New Grand Theory of Development: Connectionism and Dynamic Systems Theory Re-Considered*. To be published by Oxford University Press.
- Raijmakers, M.E.J. & Molenaar, P.C.M. (2008). Modelling cognitive developmental transitions in neural networks: bifurcations in an adaptive resonance theory model. In: Mareschal, D., Sirois, S., Westermann, G. & Johnson, M. (eds.). *Neuroconstructivism: Perspectives and Prospects, Volume 2*. Oxford: Oxford University Press. p. 99 – 128.
- Berkeljon, A. & Raijmakers, M.E.J. (2007). An ART Neural Network Model of Discrimination Learning. *Proceedings of the IEEE ICDL, Imperial college London*, 11 – 13 July 2007 (6 pages).
- Schmittmann, V.D. & Raijmakers, M.E.J. (2007). Development of reversal shift learning: An individual differences analysis. *Proceedings of the IEEE ICDL, Imperial college London*, 11 – 13 July 2007 (6 pages).
- Visser, Ingmar, Verena Schmittmann, & Maartje E.J. Raijmakers (2007). Markov process models for discrimination learning. In, K. van Montfort, H. Oud & A. Satorra (Eds.), *Longitudinal models in the behavioral and related sciences*, European Association of Methodology, chapter 14, p. 337-366.
- van der Maas, H. L. J., Jansen, B. R. J. & Raijmakers M.E.J. (2004). Developmental patterns in proportional reasoning. In A. Demetriou & A. Raftopoulos (Eds.), *Cognitive Developmental Change Theories, Models and Measurement*. Cambridge University Press.
- Raijmakers, M.E.J. & Molenaar, P.C.M. (2001). A biologically plausible maturation

- of an ART network. In: French, R.M. & Sougné, J.P (eds.). *Connectionist models of learning, development and evolution*. Springer-Verlag: London. (p. 83 - 91)
- Visser, I., Raijmakers, M.E.J. & Molenaar, P.C.M. (2001). Hidden Markov model interpretations of neural networks. In: French, R.M. & Sougné, J.P (eds.). *Connectionist models of learning, development and evolution*. Springer-Verlag: London.
- Molenaar, P.C.M., Newell, K., Hartelman, P. & Raijmakers, M.E.J. (1999). Recursive estimation in nonlinear dynamics: Application to the analysis of stage transition and chaos. In: Savelsbergh, G.J.P., van der Maas, L.J. & van Geert, P.L.C. (eds.). *Nonlinear developmental processes*. Koninklijke Nederlandse Academie van Wetenschappen. Verhandelingen, afd. Letterkunde. Nieuwe reeks, deel 175.
- Raijmakers, M.E.J. & Molenaar, P.C.M. (1999). A biologically plausible maturation of an ART network. In Mira, J. & Sánchez-Andrés, J.V. (eds.). Foundations and tools for neural modeling. *Lecture Notes in Computer Science*, 1606, 730-736.
- Van der Maas, L.J., Raijmakers, M.E.J., Hartelman, P. & Molenaar, P.C.M. (1999). Reaction time as recovery time after perturbation. In: Savelsbergh, G.J.P., van der Maas, L.J. & van Geert, P.L.C. (eds.). *Nonlinear developmental processes*. Koninklijke Nederlandse Academie van Wetenschappen. Verhandelingen, afd. Letterkunde. Nieuwe reeks, deel 175 (p. 159 - 167).
- Molenaar, P.C.M. & Raijmakers, M.E.J. (1998) Fitting Nonlinear Dynamical Models Directly to Observed Time Series. In: Newell, K.M. & Molenaar, P.C.M. (eds.). *Applications of nonlinear dynamics to developmental process modeling*. Lawrence Erlbaum Ass., Publishers, Mahwah, NJ.
- Raijmakers (1996): An experimental test of rule-like network performance. In G.W. Cottrell (ed.) *Proceedings of The Eighteenth Annual Conference of the Cognitive Science Society*. pg. 827. La Jolla, California. Lawrence Erlbaum Associates, Publishers, Mahwah, New Jersey.
- Van der Maas, L.J. & Raijmakers, M.E.J. (1995): Uncertainty in developmental Psychology. In: *Chance and Uncertainty*. Eds: W. van den Brink, N. van Dijk, J. Bethlehem et al., Amsterdam University Press, Amsterdam.

In revision/Submitted/in preparation

- Raijmakers, M.E.J. & Visser, I. (in revision). Statistical models of intra- and inter-individual differences and errors in category learning. *Cognitive Psychology*.
- Raijmakers, M.E.J., Ryan, C.M.E., Wills, A.J., Lea, S.E.G., Visser, I. (in revision). A comparative study about the influence of stimulus similarity on category learning in pigeons and human adults.
- Visser, I. & Raijmakers, M.E.J. (in revision). The development of exemplar-based and rule-based representations of compound stimuli. *Developmental Review*.
- Van Schijndel, T., Singer, E. & Raijmakers, M.E.J. (submitted). 'The effect of a science program on young preschoolers' exploratory behavior'. *Infant and Child Development*
- Raijmakers, M.E.J., Coldren, J., & V. Schmittmann (in preparation). Categorical Individual Differences in Infant Operant conditioning.
- Raijmakers, M.E.J., Berkeljon A., et al. (in preparation). The development of discrimination-shift learning as increasing efficiency of concept-based learning. (extending Berkeljon & Raijmakers, 2007).
- Raijmakers, M.E.J., Van Es, S., Franse, R., Van Schijndel, T. (in preparation). Naïve theories of fetal development.
- Schmittmann, V.D., Dolan, C.V., Raijmakers, M.E.J., Batchelder W. (in preparation). Identification in Multinomial Process Tree Models.
- Schmittmann, V.D., Dolan, C.V. & Raijmakers, M.E.J. (in preparation). Bayesian analysis of the development of discrimination learning.
- Van Schijndel, T. & Raijmakers M. (in preparation). Individual strategies in the development of causal reasoning.

Invited lectures (*other lectures at conferences are not listed*)

- Raijmakers, M.E.J. & van Schijndel, T.J.P. (2008). Symposium of the Curious Minds. Trippenhuis, Amsterdam.
- Raijmakers, M.E.J. (2008). Adaptive Resonance Theory. Lecture at the 2008 CSCA interdisciplinary summerschool on Cognitive Modelling.
- Raijmakers, M.E.J. (2007). How Babies learn. Symposium on behalf of 100 year of Psychology at the UvA.
- Raijmakers, M.E.J. (2007). Inter-individual differences in free classification. Invited presentation at the School of Psychology, University of Exeter.
- Raijmakers, M.E.J. & VanderMaas, H.L.J. (2005). Cognitive development: The balance scale task. Invited lecture at the ESF exploratory workshop: *Understanding the Dynamics of Knowledge*. Siena.
- Raijmakers, M.E.J. (2005). Rules and development in free classification. Invited lecture at the Expert Meeting *Advances in Developmental Cognitive Neuroscience*, April 2005 Amsterdam.
- Raijmakers, M.E.J. (2004). Belief revisions during the cognitive development of proportional reasoning. *Workshop on belief revision of the ILLC, Amsterdam*.
- Raijmakers, M.E.J. (2004) Two modes of simple discrimination learning during development. Invited lecture at the *CSCA symposium on Development of Cognitive Control: Normative Changes and Psychopathology*. Amsterdam, March 2004.
- Raijmakers, M.E.J. & Schmittmann, V. D. (2004). Two modes of categorization learning during development. Invited poster presentation at the biennial workshop *Attention & Performance XXI*, 2004, Denver.
- Raijmakers, M.E.J. (2003). Transities in cognitieve ontwikkeling. Invited lecture at the *Seminar Cognitive Science, CSCA*, Amsterdam, januari 2003.
- Raijmakers, M.E.J. (2003). Rule-like behavior in neural networks. Invited lecture at the RijksUniversiteit Groningen, September, 2003.
- Raijmakers, M.E.J., van Someren, M. & Kamps, J. (2003). The Origin of Novelty. Invited poster at the NWO symposium of the Cognition programme, June 2003.
- Raijmakers (2001): Detecting rules in free classification. Invited presentation at the Symposium on Development of Cognitive Strategies. Amsterdam, May 2001.
- Raijmakers (2001): Modeling transitions in cognitive development with bifurcations in neural networks. Invited lecture at the NWO-Seminar Computational Neuroscience. NIH, Amsterdam April 2001.
- Raijmakers (2000): Selforganisation in cognitive psychology. Invited lecture at the summerschool of the BCN. Groningen.
- Raijmakers (1999): A Biologically Plausible Maturation of an ART network. Invited lecture at IWANN, Alicante, 1999.
- Raijmakers (1998): Zelf-organisatie in Ontwikkelingspsychologie. Invited lecture at the werkgroep Socio-Cybernetica, Amsterdam.
- Raijmakers (1996): Leert een neurale netwerk cognitieve concepten? Invited lecture at the vakgroep cognitiewetenschappen (TCW) van de Rijks Universiteit Groningen.

Education activities

- Basisprogramma Ontwikkelingspsychologie, werkgroepen* (2008). 3rd year BA. Design and Coordination.
- Cognitive Development* (2007, 2008 in Dutch). 3rd year BA. Design, teaching, coordination.
- Advanced Topics in Cognitive Development* (2006, 2007, 2008 in English). Research Master. Design, coordination, teaching.
- Summerschool of the CSCA: Developmental Disorders* (2006). Visiting prof. A.

Karmiloff-Smith. Design, coordination, teaching.
Bachelor Theses, (Research) Master Research Projects, (2 students are PhD in Londen, Birkbeck college).
Intern-ships (begeleiding externe stages Deventer Ziekenhuis, science center NEMO).
Infant development (2002 – 2005, Dutch), MA course. Master course. Design, coordination, teaching.
Simulation of Growth and Development (1998 – 2002), Master course. Co-design, coordination, teaching.
(2003) Co-designing of diagnostics-education with developmental section and Psychology Department.
(2002-2004) Representative of Dept. of Psychology in the Master's education committee of the Cognitive Science Center Amsterdam. Design of the first interdisciplinary teaching program of the Master's Cognitive Science.