ROBERT M. FRENCH

Research Director, French National Center for Scientific Research (CNRS)
LEAD-CNRS UMR 5022
Pôle AAFE - Esplanade Erasme
P.O. Box. 26513, University of Burgundy
21065 Dijon, France
e-mail: robert.french@u-bourgogne.fr
tel: +33 [0]3.80.39.90.65
FAX: +33 [0]3.80.39.57.67
Sec.: +33 [0]3.80.39.57.81 / 39.65

Education

8/85 - 5/92   Graduate student in computer science at the University of Michigan, Ann Arbor, Michigan. Ph.D. in computer science.
1972 - 74   Attended Indiana University; M.A. in mathematics.
1969 - 72   Attended Miami University of Ohio; graduated in three years with honors; B.S. in mathematics.

Awards and Honors

1990 Scholarship, McDonnell Foundation Summer Institute in Cognitive Science
1972 Elected President of the Senior Class of Miami University of Ohio.
1971 Junior Award in Mathematics, Miami University of Ohio.
1971 Elected to Phi Beta Kappa.

Employment

10/04 – present   Research Director, French National Center for Scientific Research (CNRS)
1/01 – 9/04   Professor of Quantitative Psychology and Cognitive Science, Department of Psychology, University of Liège, Belgium.
5/98 – 12/00   Associate Professor, Quantitative Psychology and Cognitive Science, Department of Psychology, University of Liège, Liège, Belgium
5/95 – 4/98   Research Scientist, Department of Psychology, University of Liège, Liège, Belgium
9/94 - 5/95   Post-doctoral Fellow, Department of Psychology, University of Wisconsin, Madison, WI;
Lecturer in Cognitive Science in the Department of Educational Psychology, University of Wisconsin, Madison, WI
9/92 - 8/94   Visiting Assistant Professor of Computer Science at Willamette University, Salem, OR
4/92 - 8/92   Post-doctoral fellow at the Center for Research on Concepts and Cognition, Indiana University, Bloomington, IN.
8/85 - 3/92   Research Assistant in Computer Science, Univ. of Michigan, Ann Arbor, MI;
1/91 - 3/91   Visiting Lecturer in Computer Science, Earlham College, Richmond, IN.
5/88 - 8/88   Visiting researcher at CREA, Ecole Polytechnique, Paris, France
1/76 - 8/85   Free-lance technical translator/interpreter in Paris, France
1/75 - 6/75   Instructor of Mathematics at Hanover College, Hanover, IN.
9/72 - 12/74   Teaching Assistant in Mathematics, Indiana University, Bloomington, IN.

Ph.D Dissertation

Title: Tabletop: An Emergent, Stochastic Computer Model of Analogy-Making
Co-chairs: Douglas R. Hofstadter and John H. Holland (University of Michigan)
Thesis committee members:
    Douglas Hofstadter, John Holland, Daniel Dennett, Arthur Burks, John Laird, Steve Lytinen
Defense date: December 3, 1991 (Ph.D. awarded at the end of the 1991-92 academic year, i.e., May, 1992, University of Michigan, Ann Arbor, Michigan, U.S.A.)

Grants and Awards

2007: Assistant Principal Investigator for European Commission FP6 grant NEST PATHFINDER no. 029088, *Humans — the Analogy-making Species (ANALOGY)* Total amount of award: 1.8 million euro.

2005: Assistant Principal Investigator for European Commission FP6 grant NEST PATHFINDER no. 516542, *From Associations to Rules in the Development of Concepts (FAR)*. Total amount of the award: 1.3 million euro.

2005: Co-Principal Investigator for a Burgundy regional FABER grant : Total amount of the award: 139,500 euro

2002: Principal Investigator for a Fonds de la Recherche Grant, Université de Liège. "La modélisation connexionniste de l'oubli catastrophique et de l'apprentissage chez les bilingues." Award: 16.922 euro (~$15,300).

2001: Co-Principal Investigator for Flemish Scientific Research Council (FWO) Grant G.0068.02. Project title: How does a connectionist network process quantitative summary information? Duration: 4 years. Total amount of award: 8.9 M BEF (~$190,000 at the time of the award)

2001: Research Partner on Economic and Social Research Council (ESRC) Research Grant no. R000239112 ("A computational account of early infant categorisation", Coordinator: Denis Mareschal, 2001-2004). Total amount of the award: £262.572 (= 403,326 €).

1999: Principal Investigator for Research Training Network Grant HPRN-CT-1999-00065 from the European Commission: 48-month research project involving 5 universities in Britain, France and Belgium. Amount of award: 980.000 euros (~ $1,000,000 at the time of the award)

1998: Principal Investigator for a Fonds de la Recherche Grant, Université de Liège. "La modélisation informatique de l'organisation mémoire chez les humains, en particulier, chez les bilingues" Award: 1.300.000 BEF (~$30,000).

1998: CGRI-FNRS-British Research Council Collaborative Research Grant (with D. Mareschal, Birkbeck, London and Michael Thomas, University College, London)

1997: CGRI-FNRS-British Research Council Collaborative Research Grant (with D. Mareschal, University of Exeter): "Category variability as the key to selective memory loss in aphasic patients: a connectionist approach."

1996: CGRI-FNRS-British Research Council Collaborative Research Grant (with D. Mareschal, University of Exeter) entitled "The role of catastrophic interference in infant concept acquisition: A connectionist modeling approach."

Publications[*]

Books

French, R. (1995). *The Subtlety of Sameness: A theory and computer model of analogy-making*. Cambridge, MA: MIT Press.

Edited Books

French, R. M. and Thomas, E. (2008). *From Associations to Rules: Connectionist Models of Behavior and Cognition.* Singapore: World Scientific.

French, R. M. and Cleeremans, A. (2002). *Implicit learning and consciousness: An empirical, philosophical, and computational consensus in the making*. London, UK: Psychology Press.

French, R. M. and Sougné, J. (2001). *Connectionist models of learning, development and evolution*. Berlin: Springer-Verlag.

Translated Books

French, R. M. and Henry, J. (1985). *Gödel, Escher, Bach: les Brins d'une Guirlande Eternelle*. French Translation of *Gödel, Escher, Bach: an Eternal Golden Braid* by Douglas R. Hofstadter. Paris, France: InterEditions.

Peer-reviewed articles

Articles in Peer-reviewed Journals

Thibaut, J.-P., **French, R. M.**, & Vezneva, M. (2009). Cognitive Load and semantic analogies: searching the semantic space. (under review at *Psychonomic Bulletin and Review*).

Thibaut, J.-P., **French, R. M.**, & Vezneva, M. (2009). Analogy-Making in Children: the role of cognitive load and executive functions. (under review at *Journal of Experimental Child Psychology*).

French, R. M. and Perruchet, P. (2009). Generating constrained randomized sequences: Item frequency matters. *Behavior Research Methods.* (in press).

French, R. M. (2009). The Red Tooth Hypothesis: A computational model of predator-prey relations, protean escape behavior and sexual reproduction. *Journal of Theoretical Biology* (in press).

Nair, S. S., **French, R. M.**, Laroche, D., Ornetti, P., & Thomas, E. (2009). Application of Least-squares kernel methods and Neural Network Algorithms to the classification of Electromyographic patterns in Arthritis patients. *IEEE Transaction of Neural Systems and Rehabilitation Engineering* (in press).

French, R. M. (2009). If it walks like a duck and quacks like a duck...The Turing Test, Intelligence and Consciousness. In P. Wilken, T. Bayne, A. Cleeremans (eds.). *Oxford Companion to Consciousness*, Oxford, UK: Oxford Univ. Press. 641-643.

---

[*] **Abstracts and full-text versions of most of my published articles can be found on my Web site: http://www.ulg.ac.be/cogsci/rfrench.html**

French, R. M., Kus, E. (2008)**.** KAMA: A Temperature-Driven Model of Mate Choice Using Dynamic Partner Representations. *Adaptive Behavior, 16(1)*, 71-95.

Delbé, C.**, French, R. M.,** & Bigand, E. (2008). Catégorisation asymétrique de séquences de hauteurs musicales. *Année Psychologique, 108 (4).* 589-616.

French, R.M. (2008). Relational Priming is to Analogy-making as One-ball juggling is to Seven-ball Juggling. *The Behavior and Brain Sciences*. 386-387

French, R. M. (2007). The dynamics of the computational modeling of analogy-making. In *The CRC Handbook of Dynamic Systems Modeling*. Paul Fishwick (ed.), Boca Raton, FL: CRC Press LLC, ch. 2, 1-18.

Abreu, A., **French, R. M.**, Cowell, R. A. & de Schonen, S. (2006). Local-Global visual deficits in Williams Syndrome: Stimulus presence contributes to diminished performance on image-reproduction. *Psychologica Belgica*, 46(4), 269-281.

Ans, B., Rousset, S., **French, R. M.**, & Musca, S. (2004). Self-refreshing memory in artificial neural networks: Learning temporal sequences without catastrophic forgetting. *Connection Science*, 16, 71-99.

French, R. M., Mareschal, D., Mermillod, M. & Quinn, P. (2004) The role of bottom-up processing in perceptual categorization by 3- to 4-month old infants: Simulations and data. *Journal of Experimental Psychology: General*, 133, 382-397.

French, R. M. & Jacquet, M. (2004). All cases of word production are not created equal: Reply to Costa and Santesteban, *Trends in Cognitive Sciences, 8(6),* 254.

French, R. M. & Jacquet, M. (2004). Understanding Bilingual Memory: Models and Data. *Trends in Cognitive Sciences, 8(2)*, 87-93.

Van Rooy, D., Van Overwalle, F., Vanhoomissen, T., Labiouse, C., & **French, R. M.** (2003). A Recurrent Connectionist Model of Group Biases. *Psychological Review,* 110, 536-563.

French, R. M., (2002). Natura non facit saltum: The need for the full continuum of mental representations. *The Behavior and Brain Sciences. 25(3)*, 339-340.

Jacquet, M. & **French, R. M.** (2002). The BIA++: Extending the BIA+ to a dynamical distributed connectionist framework. *Bilingualism, 5(3)*, 202-205.

Mareschal, D., Quinn, P. C., & **French, R. M.** (2002) Asymmetric interference in 3- to 4-month-olds' sequential category learning. *Cognitive Science*, 26, 377-389.

French, R. M. (2002). The Computational Modeling of Analogy-making. *Trends in Cognitive Sciences, 6*(5), 200-205.

French, R. M. and Chater, N. (2002). Using Noise to Compute Error Surfaces in Connectionist Networks: A Novel Means of Reducing Catastrophic Forgetting. *Neural Computation, 14(7)*, 1755-1769.

French, R. M. and Labiouse, C. (2001). Why co-occurrence information alone is not sufficient to answer subcognitive questions. *Journal of Theoretical and Experimental Artificial Intelligence, 13*(4)*, 419-429.

French, R. M. & Thomas, E. (2001). The Dynamical Hypothesis in Cognitive Science: A review essay of *Mind As Motion. Minds and Machines, 11, 1*, 101-111.

Mareschal, D., **French, R. M.**, & Quinn, P. (2000). A Connectionist Account of Asymmetric Category Learning in Early Infancy. *Developmental Psychology, 36*, 635-645.

French, R. M. and Thomas, E. (2000). Why Localist Connectionist Models are Inadequate for Categorization. *The Behavior and Brain Sciences, 23*(4), 477.

French, R. M. (2000). Peeking Behind the Screen: The Unsuspected Power of the Standard Turing Test. *Journal of Experimental and Theoretical Artificial Intelligence, 12*, 331-340.

French, R. M. (2000). The Turing Test: the first 50 years. *Trends in Cognitive Sciences*, *4*(3), 115-121.

Mareschal, D. & **French, R. M.** (2000). Mechanisms of categorization in infancy. *Infancy* (ex-*Infant Behaviour and Development*), *1,* 59-76.

French, R. M. (1999). Catastrophic Forgetting in Connectionist Networks. *Trends in Cognitive Sciences, 3*(4), 128-135.

French, R. M. & Anselme, P. (1999). Interactively converging on context-sensitive representations: A solution to the frame problem. *Revue Internationale de Philosophie, 3,* 365-385.

Bredart, S. & **French, R. M.** (1999). Do babies resemble their fathers more than their mothers? A failure to replicate Christenfeld & Hill (1995). *Evolution and Human Behavior, 20*(2), 129-135.

French, R. M. and Weaver, M. (1998). New-feature learning: How common is it? *The Behavior and Brain Sciences 21*(1), NJ: LEA, 26

French, R. M. & Cleeremans, A. (1998) Function, sufficiently constrained, implies form: Commentary on Green on connectionist-explanation. *Psycoloquy* 9(21) psyc.98.9.21.connectionist-explanation.18.french

French, R. M. & Thomas, E. (1998). The Dynamical Hypothesis: One Battle Behind. *The Behavior and Brain Sciences, 21*(5), NJ: LEA, 640-641.

French, R. M. (1997). Pseudo-recurrent connectionist networks: An approach to the "sensitivity–stability" dilemma. *Connection Science, 9*(4), 353-379.

Mareschal, D. & **French, R. M.** (1997). A connectionist account of interference effects in early infant memory and categorization. *Proceedings of the 19th Annual Cognitive Science Society Conference*, LEA, 484-489.

French, R. M. (1996). The Inverted Turing Test: How a simple (mindless) program could pass it. *Psycoloquy* 7(39) turing-test.6.french.

Cleeremans, A. and **French, R. M.** (1996). From Chicken Squawking to Cognition: Levels of description and the Computational Approach in Psychology. *Psychologica Belgica* 36(1-2), 5-29.

French, R. M. (1995). Refocusing the Debate on the Turing Test. *Behavior and Philosophy*. 23(1), 61-62.

French, R. M. (1995). Taking the paradox out of the Observer's Paradox, *Journal of Experimental and Theoretical Artificial Intelligence* 7(3), 269-271.

French, R. M. (1992). Semi-distributed Representations and Catastrophic Forgetting in Connectionist Networks, *Connection Science, 4,* 365-377.

Chalmers, D. J., **French, R. M.** and Hofstadter, D. R. (1992). High-level Perception, Representation, and Analogy: A Critique of Artificial Intelligence Methodology. *Journal of Experimental and Theoretical and Artificial Intelligence*, *4*(3), 185-211.

Kaplan, S., Weaver, M., and **French, R.M.** (1991). Active Symbols and Internal Models: Towards a Cognitive Connectionism. *AI and Society*, *4*(1), 51-71. Reprinted in A. Clark & R. Lutz (eds.), *Connectionism in Context*. (1992). Springer-Verlag, 91-110.

French, R. M. (1990). Subcognition and the Limits of the Turing Test. *Mind*, *99*(393), 53-65. <u>Anthologized twice</u>: P. Millican & A. Clark (eds.). *Machines and Thought: The Legacy of Alan Turing* Oxford, UK: Clarendon Press, 1996; S. M. Shieber. *The Turing Test*. MIT Press, 2004.

French, R. M. (1989). An Analogy between Western Legal Traditions and Approaches to Artificial Intelligence. *AI and Society*, *3*(3), 229-234.

French, R. M. & Henry, J. (1988). La traduction en français des jeux linguistiques de Gödel, Escher, Bach. *Méta*, 33(2), 133-142.

Articles in Peer-reviewed Proceedings

Thibaut, J.-P., **French, R. M.**, & Vezneva, M. (2009). Cognitive Load and Analogy-

making in Children: Explaining an Unexpected Interaction. *Proceedings of the Thirty-First Annual Cognitive Science Society Conference,* 1048-1053.

Gill, A.J., **French, R.M.**, Gergle, D., and Oberlander, J. (2008). The Language of Emotion in Short Blog Texts. San Diego, CA, November 2008. *Proceedings of the ACM Conference on Computer Supported Cooperative Work (CSCW 2008)*. San Diego, CA, November 2008. [16% acceptance rate]

Thibaut, J.-P., **French, R. M.**, & Vezneva, M. (2008). Analogy-making in Children: The Importance of Processing Constraints. *Proceedings of the Thirtieth Annual Cognitive Science Society Conference,* 475-480.

Gill, A.J., Gergle, D., **French R.M.**, and Oberlander, J. (2008). Emotion rating from short blog texts. *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI 2008)*, pp. 1121-1124. Florence, Italy, March 2008. [Acceptance rate: 18%]

Gill, A. J., **French, R. M.**, Gergle, D., Oberlander, J. (2008). Identifying Emotional Characteristics from Short Blog Texts. In *Proceedings of the Thirtieth Annual Cognitive Science Conference*, NJ:LEA.

Gill, A.J., French, R.M., Gergle, D. and Oberlander, J. (2008). Emotional Features of Short Blog Texts. *Proceedings of CHI2008, Workshop on Measuring Affect in HCI: Going Beyond the Individual*, Florence, Italy, March 2008.

Cowell, R. A. & **French, R. M.** (2007). An Unsupervised, Dual-Network Connectionist Model of Rule Emergence in Category Learning. *Proceedings of the European Conference for Cognitive Science*.

Gill, A. & **French, R. M**. (2007). Semantic distance and author personality perception through texts. In S. Vosniadou, D. Kayser, A. Protopapas (eds.) *Proceedings of the 2007 European Cognitive Science Society*, 682-687

French, R. M. & Kus, E. (2006). Modeling Mate-Choice using Computational Temperature and Dynamically Evolving Representations. In *Proceedings of the 28th Annual Cognitive Science Society Conference,* NJ:LEA.

Delbé, C., Bigand, E., **French, R. M.** (2006). Asymmetric Categorization in the Sequential Auditory Domain. In *Proceedings of the 28th Annual Cognitive Science Society Conference*. NJ: LEA. 1210-1215.

Abreu, A. M., **French, R. M.**, Annaz, D., Thomas, M., de Schonen, S. (2005) A « visual conflict» hypothesis for global-local visual deficits in Williams Syndrome : simulations and data. *Proceedings of the 27th Annual Cognitive Science Society* Mahwah, NJ: LEA.

Mermillod M., **French R.M.**, Smeets, H. & Spencer, J. (2005). A neural network investigation of the head preference: problems explaining empirical results by bottom-up processes alone. In A. Cangelosi, G. Bugmann & R. Borisyuk (Eds.), *NCPW 9: Modelling Language, Cognition, and Action*. World Scientific, 2005.

Mermillod, M., **French, R. M.**, Quinn, P. & Mareschal, D., (2003). The Importance of Long-term Memory in Infant Perceptual Categorization. *Proceedings of the 25th Annual Conference of the Cognitive Science Society*. NJ:LEA 804-809.

French, R. M., Mermillod, M., Quinn, P., Chauvin, A., & Mareschal, D. (2002). The Importance of Starting Blurry: Simulating Improved Basic-Level Category Learning in Infants Due to Weak Visual Acuity. *Proceedings of the 24th Annual Conference of the Cognitive Science Society*. NJ:LEA. 322-327.

French, R. M. & Labiouse, C. (2002). Four Problems with Extracting Human Semantics from Large Text Corpora. *Proceedings of the 24th Annual Conference of the Cognitive Science Society*. NJ:LEA. 316-322.

Ans, B., Rousset, S., **French, R. M.**, & Musca, S. (2002). Preventing Catastrophic Interference in Multiple-Sequence Learning Using Coupled Reverberating Elman Networks**.** *Proceedings of the 24th Annual Conference of the Cognitive Science Society*. NJ:LEA. 71-76.

Labiouse, C.L., **French, R. M.**, & Mermillod, M. (2002). Using Autoencoders to Model Asymmetric Category Learning in Early Infancy: Insights from Principal Components Analysis. In J.A. Bullinaria, & W. Lowe (Eds.).*Connectionist Models of Cognition and Perception: Proceedings of the Seventh Neural Computation and Psychology Workshop*, Singapore: World Scientific, 51-63.

Sougné, J. and **French, R. M.** (2001). Synfire chains and catastrophic interference. *Proceedings of the 23nd Annual Conference of the Cognitive Science Society*. NJ: LEA, 270-275.

French, R. M., Mermillod, M., Quinn, P. C., & Mareschal, D. (2001). Reversing Category Exclusivities in Infant Perceptual Categorization: Simulations and Data. *Proceedings of the 23nd Annual Conference of the Cognitive Science Society,* NJ:LEA, 307-312.

French, R. M., Ans, B., & Rousset, S. (2001). Pseudopatterns and dual-network memory models: Advantages and shortcomings. In R. French & J. Sougné (eds.), *Connectionist Models of Learning, Development and Evolution: Proceedings of the Sixth Neural Computation and Psychology Workshop.* London: Springer, 13-22.

Labiouse, C. & **French, R. M.** (2001). A connectionist model of person perception and stereotype formation. In In R. French & J. Sougné (eds.), *Connectionist Models of Learning, Development and Evolution: Proceedings of the Sixth Neural Computation and Psychology Workshop.* London: Springer, 209-218.

French, R. M., Brédart, S., Huart, J., Labiouse, C. (2000). The Resemblance of One-year-old Infants to Their Fathers: Refuting Christenfeld & Hill (1995). *Proceedings of the 22nd Annual Conference of the Cognitive Science Society*, 148-153.

French, R. M. (2000). The Chinese Room: Just Say "No!". *Proceedings of the 22nd Annual Conference of the Cognitive Science Society*, 657-662.

French, R. M. & Ferrara, A. (1999). Modeling time perception in rats: Evidence for catastrophic interference in animal learning. In *Proceedings of the 21st Annual Conference of the Cognitive Science Conference*. NJ:LEA, 173-178.

Mareschal, D. & **French, R. M.** (1999). A Connectionist Account of Perceptual Category-Learning in Infants. In *Proceedings of the 21st Annual Conference of the Cognitive Science Conference*. NJ:LEA, 337-342

French, R. M. & Mareschal, D. (1998). Could Category-Specific Semantic Deficits Reflect Differences in the Distributions of Features Within a Unified Semantic Memory? In *Proceedings of the Twentieth Annual Cognitive Science Society Conference*. NJ:LEA. 374-379.

French, R. M. (1998) A Simple Recurrent Network Model of Bilingual Memory. In *Proceedings of the Twentieth Annual Cognitive Science Society Conference*. NJ:LEA. 368-373.

French, R. M. (1997). Selective memory loss in aphasics: An insight from pseudo-recurrent connectionist networks. In J. Bullinaria, G. Houghton, D. Glasspool (eds.). *Connectionist Representations: Proceedings of the Fourth Neural Computation and Psychology Workshop.* Springer-Verlag. 183-195.

Sougné, J. & **French, R. M.** (1997). A Neurobiologically Inspired Model of Working Memory Based on Neuronal Synchrony and Rythmicity. In J. Bullinaria, G. Houghton, D. Glasspool (eds.). *Connectionist Representations: Proceedings of the Fourth Neural Computation and Psychology Workshop.* Springer-Verlag. 155-167.

French, R. M. and Ohnesorge, C. (1997). Homographic self-inhibition and the disappearance of priming: More evidence for an interactive-activation model of bilingual memory. *Proceedings of the 19th Annual Cognitive Science Society Conference*, New Jersey: LEA, 241-246.

Mareschal, D. and French, R. M. (1997). A connectionist account of interference effects in early infant memory and categorization. *Proceedings of the 19th Annual Cognitive Science Society Conference*, New Jersey: LEA, 484-489.

French, R. M. (1997). Using pseudo-recurrent connectionist networks to solve the problem of sequential learning. *Proceedings of the 19th Annual Cognitive Science Society Conference*, New Jersey: LEA. 921.

French, R. M. (1997). When coffee cups are like old elephants or Why representation modules don't make sense, *Proceedings of the International Conference New Trends in Cognitive Science,* A. Riegler & M. Peschl (eds.), Austrian Society for Cognitive Science, p. 158-163.

French, R. M. & Ohnesorge, C. (1996). Using interlexical nonwords to support an interactive-activation model of bilingual memory. *Proceedings of the Eighteenth Annual Cognitive Science Society Conference,* New Jersey: LEA. 318-323.

French, R. M. and Ohnesorge C. (1995). Using non-cognate interlexical homographs to study bilingual memory organization. *Proceedings of the Seventeenth Annual Conference of the Cognitive Science Society*, NJ: LEA. 31-36.

French, R. M. (1994). Dynamically constraining connectionist networks to produce distributed, orthogonal representations to reduce catastrophic interference. *Proceedings of the Sixteenth Annual Conference of the Cognitive Science Society*, NJ: LEA. 335-340.

French, R. M. and Messinger, A. (1994). Genes, Phenes and the Baldwin Effect: Learning and Evolution in a Simulated Population. In Brooks, R. and Maes, P. (eds.). *Artificial Life IV*. Cambridge, MA: MIT Press, 277-282.

French, R. M. (1994). Catastrophic forgetting in connectionist networks: Can it be predicted, can it be prevented? In Cowan, J.D., Tesauro, G., & Alspector, J. (eds.). In *Advances in Neural Information Processing Systems 6*. San Francisco, CA: Morgan Kauffmann. 1176-1177.

Hofstadter, D. R. and French, R. M. (1992). Probing the Emergent Behavior of Tabletop, an Architecture Uniting High-level Perception with Analogy-making, *Proceedings of the Fourteenth Annual Cognitive Science Society Conference*, Hillsdale, NJ: LEA. 528-533.

French, R. M. and Hofstadter, D. R. (1991). Tabletop: An Emergent, Stochastic Model of Analogy-making, *Proceedings of the Thirteenth Annual Cognitive Science Society Conference*, Hillsdale, NJ: LEA, 708-713.

French, R. M. (1991). Using Semi-distributed Representations to Overcome Catastrophic Forgetting in Connectionist Networks. *Proceedings of the Thirteenth Annual Cognitive Science Society Conference*, Hillsdale, NJ: LEA. 173-178.

French, R. M. (1988). Subcognitive Probing: Hard Questions for the Turing Test. *Proceedings of the Tenth Annual Cognitive Science Society Conference*, Hillsdale, NJ: LEA. 361-367.

French, R. M. and Weaver, M. (1987). The Role of Categories in the Generation of Counterfactuals: A Connectionist Interpretation. *Proceedings of the Ninth Annual Cognitive Science Society Conference*, Hillsdale, NJ: LEA. 938-944.

Encyclopedia articles (Peer-reviewed)

French, R. M. (2003) Catastrophic Forgetting in Connectionist Networks. In Nadel, L. (Ed.) *Encyclopedia of Cognitive Science. Vol. 1*, pp. 431 - 435. London: Nature Publishing Group.

Kokinov, B. and **French, R. M.** (2003) Computational Models of Analogy-making. In Nadel, L. (Ed.) *Encyclopedia of Cognitive Science. Vol. 1*, pp.113 - 118. London: Nature Publishing Group.

Non peer-reviewed articles

Book Chapters (not peer-reviewed)

Defays, D., **French, R. M.**, & Sougné, J. (1999). L'apport de l'intelligence artificielle à la psychologie. In J. A. Rondal, *Introduction aux Sciences Psychologiques.* Brussels: Labor; Paris: Magnard. 379-415.

French, R. M. (1995). The Problem of Representation and the Necessary Interaction Between Top-down and Bottom-up Processing. In B. Kokinov (ed.). *Perspectives in Cognitive Science*, Sofia: New Bulgarian University Press, 103-107.

French, R. M. and Hofstadter, D. R. (1995). Tabletop, Battle-Op, ..., In *Fluid Concepts and Creative Analogies* by D. R. Hofstadter, New York, NY: Basic Books.

French, R. M. and Hofstadter, D. R. (1995). The emergent personality of Tabletop, a perception-based model of analogy-making. In *Fluid Concepts and Creative Analogies* by D. R. Hofstadter, New York, NY: Basic Books.

Book Reviews and Essays (not peer-reviewed)

French, R. M. (2008). Neuroconstructivism: A new manifesto for child-development research. *Behavioral and Brain Sciences*. (in press).

French, R. M. (2004)**.** For historians of automated computing only: A review of W*ho Invented The Computer? The Legal Battle That Changed Computing History* by Alice Rowe Burks. *Endeavour, 28(3)*, 94-95.

French, R. M. (2002). Review of Daniel Levine's *Introduction to Neural and CognitiveModeling.* In *Biological Psychology, 60(1)*, 69-73.

French, R. M. (1999). Constrained connectionism and the limits of human semantics: a review essay of Terry Regier's *The Human Semantic Potential*. In *Philosophical Psychology, 12*(4), 515-523.

French, R. M. (1996). Problems with 'An Invitation to Cognitive Science,' a review of J. Leiber's *Invitation to Cognitive Science* (Blackwell Publishers, Cambridge, MA). In *Minds & Machines*, *6*(1), 92-95.

French, R. M. (1996). Review of Paul M. Churchland, *The Engine of Reason, the Seat of the Soul* (The MIT Press, Cambridge, MA). In *Minds & Machines*, *6*(3), 416-421.

Other Publications (not peer-reviewed)

French, R. M. (1988). The Banach-Tarski Theorem, *The Mathematical Intelligencer*, 10(4).

French, R. M. (1987). Singe, un générateur aléatoire de texte, *Pour la Science* (French edition of *Scientific American*), June 1987, 17-22.

French, R. M. (1987). Le théorème de Banach-Tarski. *Pour la Science*, Feb., 112- 117.

French, R. M. (1985). Pangrammes et anagrammes, *Pour la Science*, July, 11-15.

Professional activities

Grant Review Boards and Expert Consultancy
- Evaluation panel member for IGERT for the National Science Foundation (NSF), Washington, D.C., June 18-19, 2007.
- NSF external evaluator, September 2006.
- Evaluation panel for FET-OPEN FP7, June 26-27, 2007 (rapporteur)
- Evaluation panel for FET-OPEN FP7, June 11-15, 2007 (rapporteur)
- Invited to Key Technologies for Europe FP7 workshop, September 19-20, 2005.
- Evaluation Panel for NEST 6th Framework, November 22, 2004.
- Evaluation Panel for NEST 6th Framework, October 18-22, 2004.
- Consulting panel for the development of research funding themes for the Seventh Framework Program, 21-22 April, 2004.
- Evaluation Panel for Networks of Excellence/Integrated Projects: Information Society Technologies (IST) 6th Framework, Nov. 10-18, Dec. 8-10, 2003.
- Consulting panel for the creation of a nanotechnology call, 10-11 September, 2003
- Consulting panel for the creation of a Cognitive Science initiative, 8 May, 2003
- Future Emerging Technologies (FET) – Open Evaluation Panel, March 2002.
- Proposal Evaluator for Information Technologies Initiative, May 2001
- Proposal Evaluation Panel for the Neuroinformatics Initiative, Nov. 2000.
- Grant Proposal Reviewer for the Nederlandse Organisatie voor Wetenschappelijk Onderzoek (NWO).
- Grant Proposal Reviewer for the *Cognitique* Program, France.

Ad Hoc Referee for:

Adaptive Behavior
Artificial Life,
The Behavior and Brain Sciences,
Brain and Cognition,
Cognition;
Cognitive Science Society Conference Proceedings, 1992-2005;
Cognitive Science;
Cognitive Systems Research;
Communications of the ACM;
Connection Science;
European Journal of Cognitive Psychology,
Evolution and Human Behavior,
Hippocampus;
Journal of Experimental Psychology: Learning, Memory & Cognition
Le Travail Humain;
Machine Learning;
Mind and Language;
Network: Computation in Neural Systems
Philosophical Psychology;
Psychologica Belgica.

Doctoral Theses Supervised or Co-supervised:
Lori Vanriper (2007 – present)
Milena Vezneva (2007 – present)
Charles Delbé (2004 - present)
Martial Mermillod (2000 – 2004, Ph.D obtained, 2004)
Maud Jacquet (2001 – 2005, Ph.D obtained, 2005)
Jacques Sougné (1995-1999, Ph.D obtained, 1999).

Post-doctoral researchers supervised
    Rosemary Cowell (2006 -2007)
    Alastair Gill (2006 – 2007)
    Carlo Fulvi Mari (2000 – 2001).

Doctoral Committees:

Université Libre de Bruxelles, Doctoral committee member for Antoine Pasquali. Dissertation title: Learning with and without consciousness : Empirical and explorations. (2009).

University of Queensland, Australia. Doctoral committee member (rapporteur) for Ruth Jennifer Schulz. Dissertation title: *Spatial Language for Mobile Robots: The Formation and Generative Grounding of Toponyms.* (2008).

University of Sussex, Brighton, UK : Bartholomew Baddeley. Dissertation title: Using neural networks for the adaptive control of movements : an investigation into the problem of interference in distributed feedforward networks. Department of Cognitive Science, University of Sussex, Brighton, UK., October 20, 2006

University of Queensland, Australia. Doctoral committee member (rapporteur) for James Watson. Dissertation title: *From genes to phenes and back again: Modelling the interaction between individual behaviour and evolution* (2006).

Université de Liège, doctoral committee member for Maud Jacquet, dissertation title: *Fluence conceptuelle : Etude à travers la mémoire bilingue et monolingue.* (2005).

University of Queensland, Australia. Doctoral committee member (rapporteur) for Scott Boland. Dissertation title: *FAE: The Fluid Analogies Engine. A Dynamic, Hybrid Model of Perception and Mental Deliberation* (2005).

Université de Liège, doctoral committee member for Martial Mermillod, dissertation title: Perceptual categorization and memory in human and connectionist systems: evidence from neural computation (2004).

Université de Pierre Mendès-France, Grenoble, doctoral committee member (rapporteur) for Serban Musca, dissertation title: Auto-rafraîchissement de la mémoire humaine : Etudes comportementales et simulations en réseau de neurones dual réverbérant (2004).

Université de Bourgogne, Dijon, doctoral committee member (rapporteur) for Bénédicte Poulin, dissertation title: Effet d'expertise sur le traitement des structures musicales (2003).

Université de Liège, doctoral committee member for Frédéric Simons, dissertation title: Exploration des processus de décision dans une perspective évolutionnaire: le cas de l'effet de cadrage (2002).

Université Libre de Bruxelles, doctoral committee member for Maud Boyer, dissertation title: Les mécanismes d'abstraction dans l'apprentissage de séquence: Etudes empiriques et modélisation. (2001).

Vrije Universitat van Brussel doctoral committee member for Dirk van Rooy, dissertation title: A connectionist model of illusory correlation in groups. (2001).

Université Libre de Bruxelles, doctoral committee member for Arnaud Destrebecqz, dissertation title: l'Apprentissage implicite: une étude computationnelle, expérimentale, et neurobiologique. (2000).

Université de Liège, doctoral committee member for Jacques Sougné, dissertation title: INFERNET: A computational model of binding and inference. (1999).

Université de Liège, doctoral committee member for André Ferrara; dissertation title: Dynamique de l'adaptation au temps et modèle de l'horloge interne. (1999).

Université de Paris XIII, referee (rapporteur) for the doctoral committee of Damien Ploix; dissertation title: *Elaboration, Réalisation, et Evaluation d'un environnement de programmation analogique.* (1999).

University of Oxford, Oxford, U.K.: doctoral committee member for Michael Thomas; dissertation title: Knowledge Representation and Connectionist Networks (1997).

Université de Paris XIII, referee (rapporteur) for the doctoral committee of Renaud Dumeur; dissertation title: Synthèse de comportements animaux individuels et collectifs par Algorithmes Génétiques (1993).

Editorships and Journal Affiliations

Senior Editor for Computer Science for the *Macmillan Encyclopedia of the Cognitive Sciences.* London: Nature Publishing Group;

Associate Editor of *Trends in Cognitive Sciences*;

Board of Reviewers, *Cognitive Science 2000-2005*;

Editorial board member of the *Journal of Experimental and Theoretical Artificial Intelligence*;

Associate for *The Behavior and Brain Sciences.*

Professional Workshops

Organized the Tenth Neural Computation and Psychology Workshop (NCPW10), held April 12-14, 2007 at the University of Burgundy, Dijon, France.

Invited to lecture on connectionist networks at the International Cognitive Science Summer Institute at the New Bulgarian University, Sofia, Bulgaria, July 20-27, 2003.

Invited to lecture at the Santa Fe Complex Systems Summer School, Central European University, Budapest, Hungary, July 23-27, 2001.

Organized the Sixth Neural Computation and Psychology Workshop (NCPW6). Held at the University Liège, September 16-18, 2000.

Organized an international workshop on implicit learning at the University of Liège, March 28, 1998. Title of the workshop: "The role of implicit memory and implicit learning in representing the world."

Invited to lecture on computer modeling of analogy-making and on catastrophic forgetting in connectionist networks at the International Cognitive Science Summer Institute at the New Bulgarian University, Sofia, Bulgaria, September 12-24, 1994 and July 2-12, 1995.

Selected to organize a workshop on catastrophic forgetting in connectionist networks for the 1993 Neural Information Processing Systems (NIPS) conference, Vail, Colorado, December 3-4, 1993.

Selected to participate in the 1990 Dartmouth Summer Institute in Cognitive Neuroscience, July 4-15, 1990.

Professional Boards

Member of the TEMPUS Project Evaluation Board for the establishment of a cognitive science program at the New Bulgarian University in Sofia, Bulgaria, 1998-1999.

Executive Board member of the Belgian Psychological Society (2000-2002).

International Advisory Board for the New Bulgarian University, Sofia, Bulgaria.

Conference Program Committees

Cognitive Science Society Annual Conference: 2002-2008

Interdisciplinary Conference on Modeling and Using Context, Paris, 2005

European Cognitive Science Conference, 2003, 2007.
Artificial Life VII, Portland, Oregon, USA, 2000
Conference on Computation, Metaphors, & Agents, 1998

Oral Presentations at International Conferences

2009   Cognitive Load and Analogy-making in Children: Explaining an Unexpected Interaction. 31st Annual Conference of the Cognitive Science Society, Amsterdam, Holland.

2008   Analogy-making in children: The importance of processing constraints. 30th Annual Conference of the Cognitive Science Society, Washington, D.C., U.S.A.

2007:   • KAMA: A Temperature-Driven Model of Mate-Choice using Dynamic Partner Representations. Tenth Neural Computation and Psychology Workshop, Dijon, France. April 13, 2007.
        • Analogy-Making: Resolved and Unresolved Mysteries. Invited Symposia . *B. Kokinov, D. Gentner, S. Christie, L.A. Doumas, K. Kurtz, et **R. French**,*. EuroCogSci, May 2007, Delphi, Greece.

2005:   A cat is a cat is a cat: Or is it? Reflections on modeling infant perceptual categorization. Annual Summer Interdisciplinary Conference 2005 (ASIC 2005), July 26, 2005, Briançon, France.

2004:   Why You'll Remember This Talk and Most Networks Wouldn't or The Problem (and a Solution to) Catastrophic Forgetting in Neural Networks. Keynote Speaker. Ninth Neural Computation and Psychology Workshop, Plymouth, UK. September 8-10, 2004.

2003:   • The importance of long-term memory in infant perceptual categorization. 25th Annual Conference of the Cognitive Science Society. Boston, MA, U.S.A.

2002:   • The Importance of Starting Blurry: Simulating Improved Basic-Level Category Learning in Infants Due to Weak Visual Acuity. 24th Annual Conference of the Cognitive Science Society. Fairfax, Virginia, U.S.A.
        • Four Problems with Extracting Human Semantics from Large Text Corpora. 24th Annual Conference of the Cognitive Science Society, Fairfax, Virginia, U.S.A.
        • Preventing Catastrophic Interference in Multiple-Sequence Learning Using Coupled Reverberating Elman Networks. 24th Annual Conference of the Cognitive Science Society, Fairfax, Virginia, U.S.A.

2001:   • Reversing Category Exclusivities in Infant Perceptual Categorization: Simulations and Data. 23nd Annual Conference of the Cognitive Science Society, Edinburgh, U.K.
        • Reversing Asymmetric Infant Perceptual Categorization. European Society for Cognitive Psychology (ESCOP), Edinburgh, U.K.
        • Pseudopatterns and dual-network memory models: Advantages and shortcomings, Sixth Neural Computation and Psychology Workshop, Liège, Belgium.
        • The Resemblance of One-year-old Infants to Their Fathers: Refuting Christenfeld & Hill (1995). 22nd Annual Conference of the Cognitive Science Society, Philadelphia, Pennsylvania, U.S.A.

1999:   • Modeling time perception in rats: Evidence for catastrophic interference in animal learning. 21st Annual Conference of the Cognitive Science Conference, Vancouver, Canada.
        • A Connectionist Account of Perceptual Category-Learning in Infants. 21st Annual Conference of the Cognitive Science Conference, Vancouver, Canada.

1998: • Do Category-Specific Semantic Deficits Reflect Differences in the Distributions of Features Within a Unified Semantic Memory? 20th Annual Cognitive Science Society Conference, Ann Arbor, Michigan, U.S.A.

1997: • Selective memory loss in aphasics: An insight from pseudo-recurrent connectionist networks. Fourth Neural Computation and Psychology Workshop, London, U.K.
   • A Neurobiologically Inspired Model of Working Memory Based on Neuronal Synchrony and Rythmicity. Fourth Neural Computation and Psychology Workshop, London, U.K.
   • Homographic self-inhibition and the disappearance of priming: More evidence for an interactive-activation model of bilingual memory. 19th Annual Cognitive Science Society Conference, Stanford, California, U.S.A.

1996: Using interlexical nonwords to support an interactive-activation model of bilingual memory. 18th Annual Cognitive Science Society Conference, San Diego, California, U.S.A.

1995: Using non-cognate interlexical homographs to study bilingual memory organization. 17th Annual Conference of the Cognitive Science Society, Pittsburgh, Pennsylvania, U.S.A.

1994: Dynamically constraining connectionist networks to produce distributed, orthogonal representations to reduce catastrophic interference. 16th Annual Conference of the Cognitive Science Society, Atlanta, Georgia, U.S.A.

1993: Catastrophic forgetting in connectionist networks: Can it be predicted, can it be prevented? In Cowan, J.D., Tesauro, G., & Alspector, J. (eds.). Neural Information Processing Workshop on Catastrophic Forgetting, Vail, Colorado, U.S.A..

1991: Using Semi-distributed Representations to Overcome Catastrophic Forgetting in Connectionist Networks. 13th Annual Cognitive Science Society Conference, Chicago, Illiniois, U.S.A.

1988: Subcognitive Probing: Hard Questions for the Turing Test. 10th Annual Cognitive Science Society Conference, Montreal, Canada.

Selected Colloquia

The emergence of rules in an unsupervised neural network. CSCA Connectionist Models Seminar. Invited talk. University of Amsterdam, Holland, June 27, 2008.

KAMA: un nouveau modèle de "mate-choice". Psychology Department, University of Poitiers, Poitiers, France, February 14, 2008.

The Emergence of Rules in Category Learning: A Semi-supervised Neural Network Model. Invited lecture. New Bulgarian University. July 16, 2007. Sofia, Bulgaria.

La modélisation informatique en psychologie. University of Burgundy, Doctoral College invited lecture series, April 2006.

La modélisation, à quoi bon ? Invited lecture. RTP-CNRS Workshop « Musique, cognition, et société ». IRCAM, Paris, June 24, 2006

Perceptual categorization in young infants. Invited lecture. Department of Psychology, University Blaise Pascal, Clermont-Ferrand, April 13, 2006.

Les modèles informatiques de la cognition. Invited lecture. Ecole doctorale, Department of Psychology, Université de Bourgogne, Dijon, France. April 6, 2006.

Fluidly representing the world: Way, way harder than you think. ESF Exploratory Workshop on Understanding the Dynamics of Knowledge. Invited talk. Sienna, Italy, November 17, 2005.

Category learning in early infancy. Invited lecture, Dept. of Psychology, University of York, UK., May 31, 2005

Why you will remember this talk and a Neural Network would not. Invited lecture. Cognitive Science Department, METU University, Ankara, Turkey. June 4, 2004.

A cat is a cat is a cat. Or is it? Perceptual bottom-up categorization in young infants: a computational model and empirical data. Two invited lectures at Bogazici University, Istanbul, Turkey. March 23-24, 2004.

The use of auto-encoders to model categorization in young infants. Invited lecture. Department of Psychology. University of Ghent, Belgium. March 2, 2004.

La suppression de l'oubli catastrophique dans les réseaux de neurones à l'aide du bruit. Invited speaker: Laboratoire d'Electronique, Informatique et Image (LE2I), Dijon, France. December 20, 2002.

Un modèle connexionniste de la catégorisation chez les enfants en bas âge. Invited speaker: Institut National Polytechnique de Grenoble (INPG), Grenoble, France. December 6, 2002.

Un modèle connexionniste de la catégorisation chez les enfants en bas âge (et des pertes catégorielles sélectives chez les amnésiques): prédictions et données empiriques. Invited Speaker: Laboratoire d'Etude des Mécanismes cognitifs. Université de Lyon 2, Lyons, France, December 5, 2002.

Using noise to overcome catastrophic interference in neural networks, SISTA seminar, Katholieke Universiteit Leuven (KUL), Invited lecture, Nov. 21, 2002.

Les réseaux connexionnistes au service de la psychologie cognitive: Quelques prédictions surprenantes. Invited speaker: GREN, Université Catholique de Louvain, Woluwe, Belgium, February 15, 2002.

The Turing Test and the Problem of Representation in Artificial Intelligence. Invited speaker, Belgian Association for Psychology Students, Liège, Belgium, March 13, 2001.

Au coeur de l'abstraction: la variance intra-catégorielle. Invited speaker, ACI Cognitique - Atelier Abstraction" Deuxième Journée Thématique "Catégories abstraites et catégories contextuelles" Ministère de la Recherche, Paris, France, January 11, 2001.

Why representing the world is (a lot) harder than you think. Invited speaker, Birkbeck College, London, November 3, 2000.

A dual-memory model connectionist explanation of category-specific deficits in amnesiacs. Invited speaker, NICI, Nijmegen, Holland, March 1, 2000.

Dogs, cats, butterflies and chairs and their relation to a connectionist explanation of category-specific deficits in amnesiacs. Invited speaker, Department of Cognitive Sciences, New Bulgarian University, Sofia, Bulgaria, January 5, 2000.

Un modèle connexionniste des déficits cérébraux sélectifs. Invited speaker, Department of Psychology, Université de Pierre Mendez-France, Grenoble, France, February 9, 1999.

Dogs, cats, butterflies and chairs and their relation to a connectionist explanation of category-specific deficits in amnesiacs. Invited speaker, Department of Cognitive Sciences, Edinburgh University, Edinburgh, Scotland, December 4, 1998.

Le modèle « pseudo-récurrent » et une explication éventuelle des déficits cérébraux sélectifs chez les amnésiques. Invited speaker, Département de Mathématiques, Université de Genève, Geneva, Switzerland, November 12, 1998.

Monogamy with cuckoldry: an evolutionarily optimal strategy? Invited speaker. Portland State University, Portland, Oregon, August 17, 1998.

La compréhension et la modélisation informatique du bilinguisme. Faculty of Experimental Psychology Colloquium, University of Liège, Liège, Belgium, December 9, 1997.

What connectionism has to say about bilingual memory organization. Invited speaker. Santa Fe Institute, Santa Fe, New Mexico, August 18, 1997.

Les ruptures analogiques et non-analogiques dans l'histoire de l'architecture. Invited speaker. School of Architecture, University of Liège, Belgium. March 12, 1997

What makes representing the world so hard for computers? Invited speaker at *Liquid Visions Conference on Science, Technology and Aesthetics*. Lucerne, Switzerland, January 18, 1997.

Catastrophic interference in connectionist networks: The cruel necessity of keeping representations apart. Invited lecture. Department of Cognitive Science, Oxford University, Oxford, England, May 24, 1996.

Using interlexical homographs and nonwords to support an interactive-activation model of bilingual memory. Invited lecture. Department of Psychology, Exeter University, Exeter, England, May 21, 1996.

La subtilité de l'identité: un modèle informatique de l'analogie. Faculty of Experimental Psychology Colloquium lecture, University of Liège, Liège, Belgium, May 14, 1996.

An interactive-activation model of bilingual memory. Invited talk at the Cognitive Science Department, University of California at Irvine, Irvine, California. November 21, 1995.

The interactive-activation model of bilingual memory: Support from non-cognate interlexical homographs and nonwords. Invited lecture for the Department of psychology, University of Amsterdam. Amsterdam, Netherlands, October 26, 1995.

L'emploi des homographes interlexicaux pour étudier l'organisation mémoire chez les bilingues. Invited lecture. Psychology colloquium series, University of Louvain, Louvain-la-Neuve, May 24, 1995.

Dynamically constraining hidden-layer units to reduce catastrophic forgetting in connectionist networks. Artificial Intelligence and Machine Learning Colloquium, Computer Science Department, University of Wisconsin, September 30, 1994.

Representation-building in analogical reasoning. In the Symposium "Learning new features of representations" at the Sixteenth Annual Conference of the Cognitive Science Society, August 14, 1994. (see p. 977 of the *Proceedings* of the Conference).

Tabletop: A stochastic computer model of analogy-making midway between connectionism and traditional AI. Invited lecture, Reed College, Portland, Oregon, November 17, 1993.

Catastrophic Forgetting and Incremental Learning in Connectionist Networks, Invited Lecture, AAAI Spring Symposium, Stanford University, California, March 24, 1993.

Tabletop: Une architecture informatique à mi-chemin entre le connexionnisme et l'IA traditionnelle. ATO-CI Invited Lecture, Université du Québec à Montréal (UQAM), Montréal, Canada, November 17, 1992.

Tabletop: A Stochastic Model of Analogy-making as High-level Perception, Invited Lecture for the Psychology Department, University of California at Berkeley, Berkeley, California, May 15, 1992.

Tabletop: An Emergent, Stochastic Model of Analogy-Making, Invited Lecture for the Computer Science Artificial Intelligence Colloquium, Carnegie-Mellon University, Pittsburgh, Pennsylvania, March 19, 1991.

Connexionnisme — L'Etat de l'Art aux Etats-Unis, Séminaire Industriel d'Intelligence Artificielle, organized by the AI Research Group of the Electricité de France, the IBM Scientific Research Center and the Expert Systems Department of Renault, Paris, France, April 10, 1990.

Subcognition and the Limits of the Turing Test, Turing 1990 Colloquium, University of Sussex, Brighton, U.K., April 6, 1990.

Tabletop — an Emergent Theory of Analogy-making, Indiana University Cognitive Science Colloquium Series, Bloomington, Indiana, September 18, 1989.

Tabletop, a computer model of analogy-making, Invited Lecture for Apple Computer Inc., Cupertino, California, July 28, 1989.

References

Denis Mareschal, Centre for Brain and Cognitive Development, School of Psychology, Birkbeck College, University of London, Malet St., London WC1E 7HX, UK, tel +44 (0)20 7631-6582/6226 fax +44 (0)20 7631-6312, email: d.mareschal@bbk.ac.uk

Pierre Perruchet, Research Director, French National Center for Scientific Research (CNRS). LEAD-CNRS UMR 5022, U. of Burgundy, Pôle AAFE, Esplanade Erasme, BP 26513, 21065 Dijon, France. pierre.perruchet@u-bourgogne.fr

Emmanuel Bigand, Director of LEAD-CNRS UMR 5022, U. of Burgundy, Pôle AAFE, Esplanade Erasme, BP 26513, 21065 Dijon, France: emmanuel.bigand@u-bourgogne.fr

Nick Chater, Director of Institute for Applied Cognitive Science, Department of Psychology, University of Warwick, Coventry, UK. Tel: (024) 7652 3537 Fax: (024) 7652 4225. email: nick.chater@warwick.ac.uk

Richard Shiffrin, Luther Dana Waterman Professor of Psychology and Director of the Cognitive Science Program, Indiana University, Bloomington, IN 47408. Tel.: (812) 855-4972; email: shiffrin@indiana.edu

Bernard Ans, Laboratoire de Psychologie & NeuroCognition (LPNC), Université de Pierre Mendes-France - CNRS UMR 5105, Sciences de l'Homme & Mathematiques, BP 47, 38040 Grenoble Cedex 09 France, Tel: +33 (0)4 76 82 58 50 & +33 (0)4 76 82 56 74, Fax: +33 (0)4 76 82 78 34 email: Bernard.Ans@upmf-grenoble.fr

Daniel C. Dennett, Distinguished Arts and Science Professor, Center for Cognitive Studies, Tufts University, Medford, Massachusetts 02155. Tel.: (617) 381-3261; email: ddennett@diamond.tufts.edu

James Friedrich, Professor of Psychology, Willamette University, Salem, OR 97301. Tel. (503) 370-6435, email: jfriedri@willamette.edu

Douglas R. Hofstadter, Professor of Cognitive Science and Computer Science, Indiana University, Bloomington, Indiana 47408. Tel.: (812) 855-6965; email: dughof@cogsci.indiana.edu