

## A.J. de Bruin (Jos)



### CONTACT INFORMATION

Parklaan 55, 3722 BD Bilthoven, 06-40734253 / 030-2294066, [jos@iaaa.nl](mailto:jos@iaaa.nl)

### PERSONAL INFORMATION

Male, Dutch citizen, date of birth February 1, 1955, married, two children.

### EMPLOYMENT HISTORY

Since 1998	<a href="#">Artificial Design BV</a> . Software development, teaching, consultancy
2008-2011	Researcher, Institute for Logic, Language and Computation, University of Amsterdam.
Since 2002	University of Amsterdam, freelance teaching and research
1999 - 2004	Free University Amsterdam, freelance teaching
1998 - 1999	CMC, Amsterdam, information manager
1991 - 1998	RIVM, Dutch National Institute of Public Health and Environmental Protection, Bilthoven. Member management team IT department.
1987 - 1991	Co-founder and director of Cartesian Products BV.
1984 - 1987	Scientist, AI Department of BBN Laboratories Inc., Cambridge, USA.
1982 - 1984	Assistant Professor for Artificial Intelligence at the University of Amsterdam.
1976 - 1982	Research Assistant, University of Amsterdam, part-time (0.5) at various institutes: Research Institute for Applied Psychology, Psychology, Accountancy.

### EDUCATION

MA Psychology, University of Amsterdam, 1982, cum laude. Cognitive Science/Artificial Intelligence.

### RESEARCH INTERESTS

<i>Language processing</i>	Connectionist language models, data-oriented parsing, language acquisition.
<i>Artificial Intelligence</i>	Knowledge representation, machine learning.
<i>Visualization</i>	Perception of visual structures (gestalts), visual grammars and styles, automatic generation of visual designs.

### LANGUAGES

Natural: Dutch and English fluently, Portuguese, German and French mainly passive.

Programming: Java, Python, Visual Basic, Processing, Clojure, PHP, Javascript, Haskell, Lisp, Prolog, Pascal, C

### EXHIBITIONS

<i>Kunst van de toekomst</i>	Generative art. Curator, participant. Stadsgehoorzaal Leiden, 25 Oct. 2015
<i>Tussen Prefab en Artificial</i>	<a href="#">ABC Architectuurcentrum</a> , Haarlem, Sep-Oct 2006, with <a href="#">ArchipelOntwerpers</a>

<i>Passages</i>	Bos van Ypeij ( <a href="#">Park Vijversburg</a> ), Tytsjerk, The Netherlands. Multi-media installation with Remko Scha. Also presenting: Felix Hess, Vincent Icke, Wim T. Schippers, Kenneth Snelson
<i>Alternate</i>	Vleeshal, Middelburg, April/May 2004 (vase design generator)
<i>Mu</i>	De Witte Dame, Eindhoven, fall 2002
<i>IAAA</i>	<i>TENT</i> , Rotterdam, spring 2000
<i>Artificial</i>	<i>ConsortiumM</i> , Amsterdam, fall 2000
<i>Nomadisch Paviljoen</i>	multimedia exhibit of Architecture and Artificial Art, spring/summer 1998, Town Hall, The Hague

## SOFTWARE DEVELOPMENT

<i>Project</i>	<i>Client/Users</i>
SpamCan – spam analysis tool	Parabots BV, Amsterdam
Child grammar analysis	ILLC, University of Amsterdam
Pension calculator (demo)	APG pension managers (see <a href="#">artificialdesign.nl/DBPR</a> )
Design generators for automatic document design	Premsele, KPN, Océ, NS, Dedato
Exhibitions in Vleeshal, Middelburg, 2004, and ABC Architectuurcentrum, Haarlem, 2006.	Premsele, Foundation for Dutch Design, Amsterdam
Penthouse design generator for AutoCad	Archipel Ontwerpers, The Hague
M, an integrated package for dynamic simulation models and data visualization	RIVM, Maastricht University, Erasmus University, CPB, CIAT Columbia, SEI Stockholm, NEPA China, PIK Potsdam
System for analysis of pigment experiments	AKZO Sikkens, Sassenheim
Generation of nutrition schedules for athletes	Nutricia, Zoetermeer
Valve selector	Keystone Valve Europe, Breda
Statistical Process Control	PLM Glass Industries, Breda
Analysis of plant breeding experiments	Zaadunie, Enkhuizen
Configuration system for network components	BBN, Cambridge, USA
Natural language database interface	US Navy, Pacific Fleet, Hawaii
Knowledge-based tutor for radar maintenance	U.S. Army Defense Artillery School, Fort Bliss, Texas
Semantic interpretation of relational nouns	BBN, Cambridge, USA
Theorem prover, LOGO interpreter	University of Amsterdam

## TEACHING

2016	<i>Automatic Cinema</i> , CMD, Avans Hogeschool, Breda
2006-2008	<i>Research Methods</i> , Informatics, University of Amsterdam
2005	<i>Information visualization</i> , Informatics, University of Amsterdam
2008	<i>Conceptual Modeling (UML)</i> , Informatics, University of Amsterdam
2005, 2007	<i>Database applications</i> , Informatics, University of Amsterdam
2005	<i>Web applications</i> , Informatics, University of Amsterdam
2003, 2004	<i>Perception and image analysis</i> - Faculty of Arts, Free University Amsterdam

- 2003, 2004 *Multimedia Information*, Informatics, Faculty of Science, University of Amsterdam
- 2001-2002 *Representation and Usability/Task analysis* - two new BA courses, Multimedia and Culture, Computer Science, Free University Amsterdam
- Algorithmic Art and AI*, Humanities, New Media, University of Amsterdam, 2001
- 1982 - 1984 Assistant Professor for Artificial Intelligence at the University of Amsterdam:  
*Introduction AI, Programming courses: Prolog and Pascal*
- 1976 - 1982 Research Assistant, University of Amsterdam: *Statistics and experimental design, Introduction SPSS, Programming in LISP*

#### PUBLICATIONS/PRESENTATIONS

Monthly columns (11) in the 2012 Volume of *De Psycholoog*.

Two acquisition paradoxes: A computational simulation (with J. van Kampen & R. Scha), DGfS, Osnabrück, 2009.

Automatic style generation (with R. Scha). Paper presented at Design Research in the Netherlands, 2005.

Algorithmix # 6 (Swarte Wech) (with R. Scha), In: Cor Wetting (ed.): *Passages*. Leeuwarden: Sprezzatura, 2005.

A series of three articles in the *AutomatiseringsGids*, on Algorithmic Art, Algorithmic Design and Algorithmic Music, (with R. Scha), spring 2003.

A Republic of Information Designers, (with R. Scha), *Vision Plus 4*, CMU, Pittsburgh, 1998.

The visual grammar of information graphics, (with Engelhardt e.a), *Conference on Artificial Intelligence and Design*, Stanford University, 1996.

M - A visual simulation tool, in: *Simulation in the Medical Sciences*, The Society for Computer Simulation, San Diego, 1996, 181-186.

The interpretation of relational nouns (with R. Scha). In: *Proc. ACL 1988*, Buffalo NY.

A system for automatic rule induction (with T. Romeyn). In *Proc. NAIC-88*, Amsterdam, 1988.

Machine learning and expert systems (with T. Romeyn), *Kennissystemen*, 2, 1, 1988.

MACH-III, a training system for radar maintenance (with D. Massey and B. Roberts). In (J. Psotka, L. Massey and S. Mutter, eds.) *Intelligent Tutoring Systems: Lessons Learned*, Erlbaum, 1988.

Expert Systems (with B. Wielinga), *Intermediar*, 5, 1984; also in *Kennis, mens en computer* (Kempen and Sprangers, eds.), Lisse, Swets & Zeitlinger, 1984.

Parallele Systemen in de AI. In *Psychologie in Nederland* (P. Drenth, W. Koops, J. Orbeke and R. Takens, eds.), Lisse, Swets & Zeitlinger, 1983, pp. 146-160.

Flexibiliteit in natuurlijke taalverwerking (with B. Wielinga), *Tijdschrift voor taal- en tekstwetenschap*, 1982, Jrg. 1, nr. 3.

Symbolic Evaluation of LISP Functions with Side Effects for Verification (with D. de Champeaux). In: *Proceedings of the Seventh Int'l Joint Conf. on AI*, Vancouver, British Columbia, 1981.

On CD-ROM (see also: [www.m.rivm.nl](http://www.m.rivm.nl)):

FRED, a Framework for Research on Environment and Development, RIVM, 1998.

Targets 1.0, Electronic Series on Integrated Assessment Modeling, Baltzer, 1998.

The IMAGE User Support System, RIVM, 1998.