

Wim Hordijk, Ph.D.

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Career objective

To find exciting & appropriate opportunities to continue my scientific research at the interface of biology, mathematics & computer science, and to engage in public outreach in the form of popular science articles, videos & lectures.

Summary of qualifications

Broad experience in interdisciplinary scientific research, algorithm design & implementation, computer modeling & simulation, programming, data analysis, general computing support, and popular science writing. Main scientific areas:

- *Evolutionary computation* (genetic algorithms, fitness landscapes)
- *Complex systems* (emergent computation, complex networks)
- *Computational biology* (collective behavior, evolutionary systems)
- *Bioinformatics* (phylogenetics, stochastic simulation)
- *Origin of life* (autocatalytic sets, history of OoL)

Education

- *Ph.D.* (Computer Science) University of New Mexico, USA (12/99)
- *B.Sc.* (Operations Research) Erasmus University, The Netherlands (8/94)

Computer skills

- *Operating systems* Unix/Linux (MS only under physical threat!)
- *Programming* C, C++, R, Tcl/Tk, HTML
- *Applications* Latex, LibreOffice, Gnuplot, Octave, GIMP, R, WordPress, RawTherapee, OpenShot...

Publications

Close to 80 publications in peer-reviewed scientific journals & proceedings, plus many popular science contributions in various online outlets. See the attached list, or visit my personal website for links to downloadable copies.

Languages

- *English* Fluent
- *Dutch* Moedertaal
- *German* Ziemlich gut
- *French* Un petit peu

Professional experience

Research, teaching & consulting

- *SmartAnalytiX*
Independent researcher & consultant (1/12-current)
- *Parmenides Foundation*, Pullach, Germany
Research fellow (11/19-10/20)
- *Complexity Institute*, Nanyang Technological University, Singapore
Research fellow (1-3/19)
- *Institute for Advanced Study*, University of Amsterdam, The Netherlands
Research fellow (1-7/18)
- *Konrad Lorenz Institute*, Klosterneuburg, Austria
Research fellow (3/16-12/17; 5-8/19)
- *Rijksuniversiteit Groningen*, D. of Chemistry, Groningen, The Netherlands
Visiting researcher (2-4/15)
- *Université de Lausanne*, D. of Ecology & Evolution, Lausanne, Switzerland
Computational & bioinformatics specialist (10/07-12/08; 10/10-12/11)
- *Fudan University*, Center for Comp. Systems Biology, Shanghai, China
Visiting research associate (11/09-2/10)
- *University of Oxford*, Dept. of Statistics, Oxford, UK
Postdoctoral researcher (7-9/09)
- *Ambedkar Institute of Technology*, Bangalore, India
Visiting researcher & lecturer (1-5/09)
- *National Bioinformatics Network*, Central Node, Cape Town, South Africa
Postdoctoral researcher (2-6/07)
- *Abstract Algorithms*, Bangalore, India
Consultant (1-2/06; 10-12/06)
- *Karunya University*, Dept. of Computer Science, Coimbatore, India
Visiting researcher & lecturer (7-12/05)
- *LIRMM*, Montpellier, France
Postdoctoral researcher (10/04-4/05)
- *University of Canterbury*, D. of Maths & Stats, Christchurch, New Zealand
Postdoctoral researcher (3-12/03)
- *Universidade de São Paulo*, Instituto de Física, São Carlos, SP, Brazil
Postdoctoral researcher (6-11/02)
- *Wirtschaftsuniversität Wien*, Institut für Statistik, Vienna, Austria
Postdoctoral researcher (12/01-4/02)
- *DNA Mining LLC*, Tesuque, NM, USA
Software developer (10/00-10/01)
- *Santa Fe Institute*, Santa Fe, NM, USA
Postdoctoral researcher (1-5/00; 1-8/01); Graduate fellow (1/95-12/99)
- *VHK Economy & Strategy Consultants*, Capelle a/d IJssel, The Netherlands
Assistant consultant (part-time; 8/90-12/94)

Fieldwork assistance

- *University of Lausanne*, Dept. of Ecol. & Evol., Lausanne, Switzerland
Collecting soil samples at 1500-3000m altitude in the Swiss Alps (9/12; 7-8/13)
- *Massey University*, Allan Wilson Centre, Palmerston North, New Zealand
Collecting buttercup species at 1000-2500m alt. in the N. Z. mountains (12/03)
- *University of New Mexico*, Dept. of Biology, Albuquerque, NM, USA
Desert biology field trip in the Chihuahuan (TX) and Sonoran (AZ) deserts (4/99)

Tour guiding

- *Escape Adventures, Las Vegas, NV, USA*
Leading 6-day mountain bike & camping trips in UT, AZ, NM & CO (6-9/00)
- *New Mexico Mountain Bike Adventures, Cerrillos, NM, USA*
Leading local mountain bike day trips in NM (part-time; 4-10/99)

Writing (commissioned)

- *John Templeton Foundation, West Conshohocken, PA, USA*
Research synthesis on autocatalytic sets & complexity (3/22)
- *ORBITER Magazine, USA*
Various popular science articles on, among others, origin of life (4-9/19)
- *Santa Fe Institute, Santa Fe, NM, USA*
Contributions to SFI newsletter and website (6/19)

Volunteering

- *The Dogga Center, Dharamsala/McLeod, India*
Teaching English to Tibetan refugees (4-5/06)
- *St. John's College Search & Rescue, Santa Fe, NM, USA*
Active member and team leader (5/98-5/00)

Research visits & short-term projects

- *Santa Fe Institute, Santa Fe, NM, USA (10-11/18; 8/19)*
- *Ben-Gurion University of the Negev, Beer-Sheva, Israel (11/17)*
- *Earth-Life Science Institute, Tokyo, Japan (10/17)*
- *Universidad de Chile, Santiago, Chile (04/14;12/15)*
- *European Centre for Living Technology, Venice, Italy (11/13; 9/16)*
- *Aarhus University, Aarhus, Denmark (9/13)*
- *Heinrich-Heine Universität, Düsseldorf, Germany (3/13)*
- *University of Canterbury, Christchurch, New Zealand (11/12)*
- *NESCent, Durham, NC, USA (10/12)*
- *Tampere University of Technology, Tampere, Finland (4-5/12)*
- *Hanyang University, Seoul, South Korea (5/10)*
- *Isaac Newton Institute for Mathematical Sciences, Cambridge, UK (11/07)*
- *Vrije Universiteit, Amsterdam, The Netherlands (1/07)*
- *Universität Tübingen, Tübingen, Germany (9/06)*
- *University of East Anglia, Norwich, UK (10/04)*
- *Massey University, Palmerston North, New Zealand (5/03; 7/03)*
- *Universität Leipzig, Leipzig, Germany (3/03; 1/04)*
- *Yale University, New Haven, CT, USA (1-2/00)*
- *Université du Littoral, Calais, France (12/96-1/97)*

