

Personal record

Name : Riethoven, Jean-Jack Marco

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Nationality : Dutch

Marital status : Married

Date and place of birth : 7 May 1967, Leiden, The Netherlands

Objective

To find a full-time research or management position in the biocomputing or bioinformatics field where I can apply my 12 years of bioinformatics experience, my knowledge in biology, and my computer science skills.

Summary of skills

- *Broad knowledge of biology-related topics, with a strong focus on bioinformatics.*
- *Extremely proficient in (object oriented) Perl. Proficient in computer languages APL, Pascal, C/C++, FORTRAN, FoxPro, Java, and to a lesser degree in 680x0 assembler, SIMULA, ISIM, (p)CSMP and GPSS.*
- *Proficient in RDBMS (Oracle, mySQL).*
- *Proficient in CGI programming & SOAP WebServices.*
- *Proficient in many software packages, both standard desktop as well as scientific.*
- *Highly proficient in many bioinformatics applications and databases.*
- *Capable of quickly learning new software packages or languages.*
- *Good analytical skills and perfectly able to work under stress.*
- *Excellent writing and documenting skills.*
- *Good organisational skills.*

Education

University of Leiden

1985 - 1991

Leiden, the Netherlands.

Drs. degree (equivalent M.Sc. + 2 years research) in Biology. Majored in bioinformatics/bio-computing science.

*Research topic: "STAR*PC, Structure Analysis of RNA" (Developing, programming, porting and documenting a research software-package that computes the secondary structure of RNA on the basis of its nucleotide sequence).*

Course highlights: Plant Ecology, Ethology, Numerical Analysis, Bioinformatics, Algorithms, Database Technology, Functional Modelling, and Mathematical Biology.

Philips van Horne S.G

Weert, the Netherlands

Equivalent to grammar school (high school)

1979-1985

E m p l o y m e n t

University of Nebraska-Lincoln

N300 Beadle Center, 1901 Vine St., Lincoln, NE
68588-0665, USA.

Manager of the Bioinformatics Core Facility.

Mar 2006 - present

EMBL-EBI

(EMBL - Outstation Hinxton, the European
Bioinformatics Institute)

Wellcome Trust Genome Campus, Hinxton, Cambridge, United Kingdom.

Bioinformatics staff scientist in the BioStandards Project, part of EBI's Industry Support Programme. The European Bioinformatics Institute is an academic research and service organisation, building and making available databases of information relevant to biological research and carrying out research in computational molecular biology. The Industry Support Programme has the overall aim of helping industry to adapt quickly to, and maximise the benefits from, developments in the fast-growing fields of bioinformatics and computational biology.

Duties:

1. **communication services (until 2001).** Besides strong scientific and technical information dissemination to pharmaceutical companies, academia, and the general public, this included: maintenance of both EBI's main web server and the industry secure web server, web site design and content master for various projects, and technical co-ordinator of EBI's team-based web authoring system. Furthermore, I was the editor of the EBI's newsletter on bioinformatics, called 'The BioInformer', which was published on the web (<http://bioinformer.ebi.ac.uk>) and in paper copy.

2. **bioinformatics tool development (until 2001).** Interaction with EBI's bioinformatics databases via stand-alone software or services on the web that can be utilised by molecular biologists to further their research. One of these developed services is XEMBL, which outputs EMBL/Genbank data in XML format (BSML) and is being used as tie-in by commercial packages to extract up-to-date gene information. XEMBL was the first publicly available bioinformatics related (SOAP) Webservice in the world.

3. **lead developer for Alternative Splicing Database (2001-).** Duties involve design, development, maintenance, and regular runs of the massive parallel compute pipeline of the ASD project. Design and implementation of analysis tools with respect to alternative splicing and offering these in a workbench on the web. Development and implementation of Oracle databases for alternative splicing data; development and maintenance of submission/curation and query systems to said databases. Technical guidance/supervision of other team members.

Contributed to various workshops and conferences organised by the Industry Programme; visited a number of Bioinformatics groups at pharmaceutical companies (members of the Industry Programme).

Co-organised the session "Sequencing, folding, and molecular structure" at the conference for Theory and Mathematics in Biology and Medicine, held in Amsterdam, The Netherlands from June 29 to July 3, 1999.

Co-organised the conference "Datamining in Bioinformatics - towards in silico Biology", held at the Wellcome Trust Genome Campus, Hinxton, United Kingdom from 10th to 12th November 1999.

Co-organised the conference "Genome Based Gene Structure Determination", held at the Wellcome Trust Genome Campus, Hinxton, United Kingdom from 1st to 2nd June 2000.

AB-DLO (former name) Oct 1992 - Jan 1996
(Research Institute for Agrobiology & Soil Fertility)
(now: Plant Research International B.V)
Wageningen, the Netherlands

Bioinformatics support staff for the SARP-project (Simulation and System Analysis for Rice Production). The SARP-project was an international co-operation project of AB-DLO, Wageningen University and the International Rice Research Institute, aimed at building research capacity in the field of crop simulation and system analysis in the Asian rice research centres.

Duties: developing, programming and documenting a user-friendly and open structured simulation environment for crop growth models. Developing, programming and documenting a user-friendly system that is capable of maximising rice yield by optimising fertiliser applications. Co-developing crop growth models; co-developing new tools and procedures for simulation software. Providing general computer support to end-users.

Worked three months in the Philippines (IRRI, Los Baños) during this project and participated in three workshops: 'International Workshop on Agro-Ecological Zonation of Rice' (Zhejiang Agricultural University, Hangzhou, P.R. of China, 14-17 April 1993), 'International Workshop on Nitrogen Management and Modelling in Irrigated Rice' (Crop Experiment Station, Rural Development Administration, Suweon, Korea, 1-10 November 1993), the 'SARP Applications Workshop' (IRRI, Los Baños, Philippines, 18 April - 6 May 1994), and the combined SARP and SAAD2 (System Analysis in Agricultural Development) symposium (IRRI, Los Baños, Philippines, 4 - 8 December 1995). Organised the Software Tools Bazaar that was part of the SAAD2 symposium.

NIOO-CEMO 1991-1992
Netherlands Institute for Ecological Research -
Centre for Estuarine and Marine Ecology.
Yerseke, the Netherlands.

Contract research as a bio-mathematician. Duties: analysing (calibration, validation, uncertainty analysis) a large estuarine ecosystems model and researching new techniques how to do so.

University of Leiden Sep 1991
Institute for Theoretical Biology
Leiden, the Netherlands

Assistant Researcher in the Bioinformatics II course. Duties: teaching a group of 60 biology students the basics of programming in APL and Pascal.

University of Leiden Jan 1990
Institute for Theoretical Biology
Leiden, the Netherlands

Research Assistant in the Bioinformatics I course. Duties: teaching a group of 30 biology students the rudiments of programming in APL and basic knowledge of the most commonly used software packages.

University of Leiden Jan 1989
Institute for Theoretical Biology
Leiden, the Netherlands

Research Assistant in the Bioinformatics I course. Duties: teaching a group of 30 biology students the rudiments of programming in APL and basic knowledge of the most commonly used software packages.

University of Leiden

1987 - 1991

Laboratory for Physiology and Physiological Physics

Leiden, the Netherlands

Research Assistant in the IT-group. Duties: data-analysis for physiological research, PC system administrator for 100+ PC's. Developed, programmed, maintained and ported software with focus on both research and education.

Human Languages

- *Dutch (my native tongue)*
- *English (fluent; both spoken and written)*
- *German (able to perfectly understand, moderate skills in speech and writing)*
- *Russian, French (both rudimentary skills)*

Computer Skills

- *Proficient in the programming languages APL, Pascal, C/C++, FoxPro, Java, Perl, and FORTRAN. To a lesser degree also some simulation languages.*
- *Proficient in database development and maintenance (Oracle, MySQL).*
- *Good knowledge of software-engineering tools (version management, configuration management).*
- *Excellent knowledge of PC, server, and Amiga hardware platforms and the operating systems MS-DOS/Windows (XP/NT), DEC VAX/VMS and various kinds of UNIX flavours. Working knowledge of IBM mainframes (TSO).*
- *Quick self-starter with regard to new software and hardware.*
- *Able to transfer complex computer and biology knowledge in a simple and understandable manner.*
- *Proficient in many software packages, both standard desktop as well as scientific.*
- *Proficient in bioinformatics related applications and databases (setting up, maintaining, using).*
- *Excellent knowledge of the latest developments with regard to Internet:*
 1. *technical aspects of web and application servers*
 2. *design, development, deployment and maintenance of mission critical web-based services*
 3. *markup languages (HTML, XML) and web authoring*
 4. *Java, CGI-programs, servlets*
 5. *Pipelining via CORBA/SOAP*
- *Experience with LANs and WANs; DEC Pathworks, Novell Netware, routing, and firewalls.*

Extra-curricular activities

- *Member of the board (treasurer) of the Leiden Association of Biologists (LBC).*

- *Member of the board (treasurer) of the Dies LBC.*
- *Editor-in-chief (4 years) of "The Chameleon", newsletter of the Biology department of the University of Leiden.*
- *Editor-in-chief of the EL CID'91 newsletter.*
- *System Administrator of a middle-sized networked BBS specialised in educational and (popular) scientific information and software (sep'90 until Jan '96).*
- *Freelance science reporter for BioInform.*
- *Representative for the European Bioinformatics Institute in the Genome Campus Sports and Social Committee and its finance committee.*

Professional memberships

- *The Netherlands Society of Theoretical Biologists (NVTB)*
- *The Netherlands Institute for Biology (NIBI)*
- *UK Bioinformatics Forum*

References

Available upon request.