

Curriculum Vitae

Waldemar Reusch, Gallenklingenstr. 44, 70195 Stuttgart
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Work Experience

Software Developer

since March 2015

Insilico Biotechnology AG
Stuttgart, Germany

Developing enterprise grade software for time-resolved diagnosis and quantitative comparison of bioprocess performance using Java Enterprise Edition

Diploma Thesis

Development of a novel Protein Database System for Sequence-Structure-Function Relationships: BioCatNet

October 2013 - December 2014
(14 months)

Institute of technical Biochemistry
University of Stuttgart, Germany

Development of a database system capable to encompass protein sequence, structure and function information. Development of an Application Programming Interface and User Interface on a Debian Linux system using in PHP, Perl, HTML, CSS and JavaScript. Maintenance of Apache and Firebird servers on Debian Linux. The system is publicly available for scientific use on <http://www.teed.uni-stuttgart.de>

Internship

Reconstruction of a Metabolic Model of *Streptomyces albus* Strain J 1074

May 2013 - July 2013
(3 months)

Insilico Biotechnology AG
Stuttgart, Germany

Modelling a genome-scale metabolic flux model of an antibiotics producing bacteria. Extensive literature and database research, modelling with proprietary software.

Research Assistant

November 2012 - April 2013
(6 months)

Institute of Technical Biochemistry
University of Stuttgart, Germany

Development of an User Interface for the novel enzyme sequence-structure-function database BioCatNet. Development on Windows,

using PHP, HTML, CSS and JavaScript as templating, markup, styling and action scripting languages, respectively.

Student Research Paper

Analyse thermokinetischer Potential-Strom-Kennlinien an einem Modell von *Escherichia coli*

October 2011 - June 2012
(9 months)

Institute for System Dynamics
University of Stuttgart, Germany

Assessing the predictive quality of the novel modelling technique Thermokinetic Modelling. Programming scripts with Mathematica, R and the shell on a Linux system.

Research Assistant

January 2011 - June 2011
(6 months)

Department of Physics, Chemistry and Biology
Linköping University, Sweden

Gene Expression Analysis of the late flowering gene in the common pea *Pisum sativum*. Working with PCR/rtPCR machines, DNA/RNA-extraction kits and Gelelektrophoresis.

Education

Dipl. Biologe, t.o.

technically oriented Biology diploma

October 2007 - November 2014

University of Stuttgart
Germany

Focus: Bioinformatics, Biophysics

Activities and Memberships: Fachschaftsvertretung Technische Biologie, Technischen Biologen an der Universität Stuttgart e.V.

January 2011 - June 2011

Linköping University
Sweden

Focus: Neuroscience, Gene Expression

Activities and Memberships: LinTek

allgemeine Hochschulreife

general qualification for university entrance

2002 - 2007

Johannes-Kepler-Gymnasium
Reutlingen, Germany

1998 - 2002

Martin-Andersen-Nexö Gymnasium
Dresden, Germany

Skills

Languages

German native proficiency,
English professional working proficiency,
Russian elementary proficiency,
Swedish elementary proficiency

IT

Database design and administration, Application Development, Bioinformatics, Metabolic Networks, Apache and Firebird servers, GIT version control, Windows and Linux administration, Microsoft and Libre Office, Adobe Creative Suite, JEE, JPA

Programming Languages

PHP4/5, HTML5, JavaScript, CSS3, SQL, Java, Perl, R, Matlab, Mathematica, Bash, LaTeX

Personal

Birthday: March 18th, 1988

Family: not married, no kids

Nationality: german

Interests and Activities

Webdesign and -development, Gadgets and emerging Technologies, Biotechnology, Analog Photography, Art and Design, Music, Movies, Electronics, Gardening