Dr. Kristian Rother

married, three children

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Areas of Expertise

Software Development

- Published Book: "Managing Your Biological Data with Python".

- Doctoral degree in structural bioinformatics
(managing large data bodies, 3D algorithms).

- Familiar with Django, Flask, Numpy, PIL, Scipy, scikit-learn, gevent, automated test frameworks.

- Sample project: **iimcb.genesilico.pl/moderna**

- Basic skills in C++, Java, C, R, HTML, CSS, JavaScript, PostGreSQL, Fortran, Pascal, and Assembler (C64).

Software Engineering

- Professional Scrum Master I certificate. **www.scrum.org**.

- Automated testing and TDD.

- Testing of web pages with Selenium WebDriver and Selenium IDE

- Version control with: Mercurial, Git, Bazaar, SVN

- Agile Best Practices: Scrum, Kanban, User Stories, Pair Programming etc.

- Published article: **"A toolbox for developing bioinformatics software"**.

Training and Communication

- Vast repertoire of training methods, see
www.academis.eu/blog/tags/teaching/.

- Toastmasters Advanced Communicator Bronze & Advanced Leader Silver Certificate
www.toastmasters.org.

- President / Vice President of the Spreeredner speaking club in Berlin (2013-2016)
www.spreeredner.de.

Career and Education

2011-2016   **Professional trainer**
workshops for software developers and scientists
www.academis.eu

2015-2016   **Freelance translator**
workshops for software developers and scientists
"Einführung in Data Science" (Joel Grus)
"Datenanalyse mit Python" (Wes McKinney)
www.oreilly.de

2010-2016   **Freelance trainer for software developers**
Noble Prog
www.nobleprog.co.uk

2014-2016   **Lecturer Python / C++ programming**
Zedat / Freie Universität Berlin
www.zedat.fu-berlin.de/Schulung/Home

2013-2016   **Lecturer in biochemistry and research methodology**
Medical School Berlin & Medical School Hamburg
www.medicalschool-berlin.de

2014-2015   **Academic Director**
Overseas Medical Education
www.premedicine-berlin.de

2006-2011   **Scientific software developer**
development of 3D modeling software
project lead & coaching junior scientists
with Prof. Janusz M. Bujnicki, Warsaw, Poland
www.genesilico.pl

2002-2006   **Postgraduate studies**
doctoral thesis at the Department of Biology, HU Berlin, thesis

Efficient use of a Protein Structure Annotation Database
(final grade: *magna cum laude*).

1996-2002   **Diploma of Biochemistry** at the FU Berlin
(final grade: *very good*).

1996   **Abitur** at the Gymnasium Steglitz Berlin
(subjects: Chemistry, Latin, Mathematics, average 1.3).

Languages

German	native
Finnish	native
English	expert; TOEFL certificate with 113/120 points
Polish	fluent
Latin	literacy (nine years)

Selected Publications

Books

Managing your Biological Data with Python. Via A, Rother K, Tramontano A. CRC Press 2014.

Research articles

Best practices in bioinformatics training for life scientists. Blicher, Bongcam-Rudloff, Brazas et al. Brief Bioinform. 2013 Sep;14(5):528-37.

A toolbox for developing bioinformatics software. Rother, Potrzebowski, Puton et al. Briefings in Bioinformatics 2011.

The complex of tmRNA-SmpB and EF-G on translocating ribosomes. Ramrath, Yamamoto, Rother, et al. Nature. 2012 May 6;485(7399):526-9.

Bioinformatics Training Network (BTN): a community resource for bioinformatics trainers. Schneider, Walter, Blatter et al. Briefings in Bioinformatics 2011 Nov 22.

RNA tertiary structure prediction with ModeRNA. Rother, Rother, Puton et al. Brief Bioinform. 2011 Nov;12(6):601-13.

Multi-Stage Learning Aids applied to hands-on software training. Rother, Rother, Pleus & Upmeier zu Belzen. Briefings in Bioinformatics 2010.

[All publications on PubMed](#)