

## Personal data

Name: Jeroen de Ridder Gender: Male  
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## Current position

Since May 2016, I am Associate Professor / Principle Investigator in the Center for Molecular Medicine of the University Medical Center Utrecht. I am currently heading the *Bioinformatics for Health and Disease* lab which consists of 4 PhD students and 4 MSc students. I have been teaching 2-3 BSc/MSc/PhD courses per year on average.

## Work Experience

**Assistant Professor.** Delft University of Technology. Mar 2010 – Apr 2016  
Tenured since Jan 2015.

## Education

**PhD.** Delft University of Technology / Netherlands Cancer Institute Sept 2005 – Mar 2010  
**Supervisors:** Prof.dr.ir. M.J.T. Reinders and Dr. L.F.A. Wessels  
**Thesis title:** Computational approaches for dissecting cancer pathways from insertional mutagenesis data  
**MSc.** Delft University of Technology, Electrical Engineering (*cum laude*) Sept 1999 – July 2005  
**Subject:** Bioinformatics

## International research visits

**Visiting researcher** Charles Mulligan Lab - St. Jude Children's Research Hospital, Memphis, USA (3 weeks) Sept 2012  
**Visiting researcher** David Adams Lab - Wellcome Trust Sanger Institute, Hinxton, UK (3 months) Aug 2012 – Sept 2012  
Oct 2011 – Nov 2011  
**Visiting researcher** Ilya Shmulevich Lab - Institute for Systems Biology, Seattle, USA (6 months) Oct 2008 – Dec 2008  
Oct 2007 – Dec 2007

## Fellowships and awards

NWO Veni career grant (250k euro) June 2012  
NBIC BioRange Project grant (200k euro) Jan 2010  
NGI fellowship for 3 month visit of the Institute for Systems Biology Sept 2007

## Supervision of PhD and MSc theses

**Co-promoter.** Joske Ubels - Prognostic signatures for Multiple Myelomas Sept 2015 – Present  
**Co-promoter.** Mamun Rashid - Making sense of non-coding cancer mutations Jan 2014 – Present  
**Co-promoter.** Amin Allahyar - Scale-space analysis for detecting markers for disease Jan 2013 – Present  
**Co-promoter.** Sepideh Babaei - Multi-scale network analyses for cancer omics data. Jan 2011 – Oct 2015

**Co-promoter.** Johann de Jong - Computational epigenomics in gene regulation and cancer research. Sept 2009 – Sept 2014  
Supervisor of 14 MSc theses and 2 BSc theses Sept 2006 – Present

## Summary of teaching activities

**University Teaching Qualification** - Modules on supervision of individual students, development and delivery of teaching and active learning & assessment. Obtained: May 2013

Most important courses:

<b>Advanced Bioinformatics</b>	MSc, 4 ECTS, 2011-2015
<b>Biology of Cancer (Nano Biology)</b>	MSc, 4 ECTS, 2015
<b>Bioinformatics (Nano Biology)</b>	BSc, 4 ECTS, 2013-2015
<b>Algorithms for Biological Networks</b>	PhD, 2 ECTS, 2014,2015
<b>Computer Vision Lab</b>	BSc, 4 ECTS, 2010-2015

Invited lectures:

<b>1st North African Workshop on Genomics and Community Genetics</b> , Casablanca, Morocco	PhD, Nov 2015
<b>Computational Biology of Complex disease and Ageing</b> , Leiden	MSc/PhD, 2011-2014
<b>EIT Summer School</b> , Aalto, Finland	PhD, Aug 2011
<b>COMP-IT Summer School</b> , Helsinki, Finland	PhD, Aug 2010

## Program committees and refereeing

**Associate editor** EURASIP Journal on Bioinformatics and Systems Biology Feb 2015 – Present

**NWO evaluation committee** PhD program for teachers 2015, 2016

**Referee for journals:** Nucleic Acids Research, PLoS ONE, PLoS Computational Biology, Bioinformatics, BMC Medical Genomics, BMC Bioinformatics, Genetics, IEEE/ACM Transactions on Computational Biology and Bioinformatics

**Member of program committees:** Benelux Bioinformatics Conference (2013, 2015), NBIC/BioSB conference (2013, 2014), Pattern Recognition in Bioinformatics (2013), European Conference on Computational Biology (2012, 2014)

**Member of PhD evaluation committees:** Monica Volpin (San Raffaele hospital, Milan Italy), Radoslaw Lach (Cambridge University, UK), Prem Adhikari (Aalto University, Finland), Martin Rijlaarsdam (Erasmus University Rotterdam), Mohammed El-Kebir (Free University Amsterdam)

## Professional activities

**Co-organizer** ECCB2016, the European Conference for Computational Biology in 2016, a global meeting with +/- 1200 participants Oct 2014 – present

**COST-action (BM1303)** - A systematic elucidation of Differences of Sex Development Aug 2015 – present

**Board member** Bio@Delft for biological research at the Delft University of Technology Oct 2013 – June 2014

**Chair program committee / organizer** of the NBIC conference 2014 Aug 2013 – April 2014

**Member of the board** of the Junior PI Initiative, an affiliate of the Sept 2012 – Sept 2015

International Society for Computational Biology

**Elected Chairman** of the Student Council of the International Society for Computation Biology (ISCB) Oct 2009 – Jan 2011

### Selection of invited talks

Invited talk, San Raffaele Telethon Institute for Gene Therapy, Milan, Italy	June 2016
Invited talk, SMRT Leiden, SMRT scientific symposium	June 2016
Invited talk, Computational Biology: from microbes to human health, Leiden	Jan 2016
Invited talk, 7th Annual Next Generation Sequencing Congress 2015, London, UK	Nov 2015
Invited talk, Nederlandse Vereniging voor Humane Genetica (NVHG) fall meeting	Nov 2015
Highlight talk at ISMB, Dublin, Ireland	July 2015
Seminar Aalto university, Finland	Nov 2014
Keynote talk European Student Council Symposium at ECCB	Sep 2014
Highlight talk at ISMB, Boston, USA	Jul 2014
Seminar Institute for Systems Biology	Aug 2012

### Important collaborators

Wouter de Laat	Hubrecht Institute	Allelic 4C/Hi-C data analysis
Alexander van Oudenaarden	Hubrecht Institute	Cell lineage tracking using Crispr/Cas9 in zebrafish
Nils Gehlenborg	Harvard Medical School	Data Coordination and Integration Center (DCIC) 4D Nucleome program - 3D genome visualization
Bas van Steensel & Maarten van Lohuizen	Netherlands Cancer Institute	Thousands of Reporters Integrated in Parallel (TRIP) data analysis
David Adams	Wellcome Trust Sanger Institute	Non-coding SNV analysis in human whole cancer genome sequencing data
Leendert Looijenga	Erasmus Medical Centre	miRNA Biomarkers / Methylation profiling of germ-cell tumors / Tumor microdissection data analysis

### Selected publications

**IF**      **Publication** (\* Corresponding author)

- 10.7 Babaei S., Akhtar W., de Jong JJ., Reinders M., **de Ridder J.\*** 3D hotspots of recurrent retroviral insertions reveal long-range interactions with cancer genes. *Nature Communications*, **2015**
- 5.3 Babaei, S., Mahfouz, A., Lelieveldt, B., **de Ridder J.\***, Reinders M.\* Multi-scale chromatin interactions are predictive for spatial co-expression patterns in the mouse cortex. *PLoS Comp. Biol.* **2015**
- 5.0 Allahyar A., **de Ridder J.\*** FERAL: network-based classifier with application to breast cancer outcome prediction. *Bioinformatics*. **2015**

- 5.0 Hulsman M., Dimitrakopoulos C., **de Ridder J.\*** Scale-space measures for graph topology link protein network architecture to function, *Bioinformatics*, **2014**
- 8.2 de Jong J., Akhtar W., Badhai J., Rust A. G., Rad R., Hilken J., Berns A. van Lohuizen M., Wessels L.F.A.\*, **de Ridder J.\***. Chromatin Landscapes of Retroviral and Transposon Integration Profiles. *PLoS Genetics*, *10*(4), **2014**
- 32.4 Akhtar W, de Jong J, Pindyurin AV, Pagie L, Meuleman W, **de Ridder J**, Berns A, Wessels LF, van Lohuizen M, van Steensel B. Chromatin Position Effects Assayed by Thousands of Reporters Integrated in Parallel. *Cell*. 154:914–927 **2013**