

Personal data

Name: Jeroen de Ridder Gender: Male
E-mail: j.deridder-4@umcutrecht.nl Date of Birth: April 7th, 1981

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:

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

Invited lectures:

1st North African Workshop on Genomics and Community Genetics , Casablanca, Morocco	PhD, Nov 2015
Computational Biology of Complex disease and Ageing , Leiden	MSc/PhD, 2011-2014
EIT Summer School , Aalto, Finland	PhD, Aug 2011
COMP-IT Summer School , 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. <i>Nature Communications</i> , 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. <i>PLoS Comp. Biol.</i> 2015
5.0	Allahyar A., de Ridder J.* FERAL: network-based classifier with application to breast cancer outcome prediction. <i>Bioinformatics</i> . 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**