

## General Information

Name: Prof. Dr. rer. nat. (Dipl.-Ing.) Hans Armin Kestler  
Date of Birth: 15.09.1965  
Gender: Male  
Address: Institute of Medical Systems Biology, Ulm University  
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Current Position: Professor of Bioinformatics and Systems Biology (W3mL)  
Director, Institute of Medical Systems Biology  
Head, Core Unit Bioinformatics, Ulm University

## Academic Education

1985-1992 Technical University of Munich, Electrical Engineering

## Academic Degrees

2011 Postdoctoral thesis (*Habilitation*), Bioinformatics, Ulm University  
Mentor: Prof. Palm  
2002 Doctoral thesis (Dr. rer. nat.) in Computer Science, Ulm University:  
"Analysis of High-Resolution Electrocardiograms – Feature Extraction  
and Pattern Recognition", Mentors: Prof. Dr. Günther Palm (Neural  
Information Processing) and Prof. Dr. Hans Wolff (Stochastics)  
1992 Masters thesis in Electrical Engineering (Dipl.-Ing. (Univ.)), Technische  
Universität München: "Test and simulation of feedforward neural  
networks with self-optimizing architecture"  
Advisor: Prof. Dr. I. Ruge

## Professional Experience

Since 2016 Full Professor, Director of the Institute of Medical Systems Biology and  
Head Core Unit Bioinformatics, Ulm University,  
Associate Group Leader at the Leibniz Institute for Age Research, Jena  
2014-2015 Full Professor, Friedrich Schiller University Jena and Senior Group  
Leader at Leibniz Institute for Age Research  
2008-2014 Research Group Leader, Bioinformatics and Systems Biology  
2003-2008 Research Professor, Bioinformatics (Stifterverband für die Deutsche  
Wissenschaft)  
2002-2003 Research Fellow, Department of Internal Medicine I - Gastroenterology,  
Ulm University (Director: Prof. G. Adler)  
1996-2002 Research Associate, Institute for Neural Information Processing Ulm  
University (Director: Prof. Palm)  
1992-1996 Research Associate, Department of Internal Medicine II - Cardiology,  
Ulm University (Director: Prof. V. Hombach)  
1991-1992 Software developer, Kontron Elektronik GmbH (Munich)  
1988-1990 Hardware developer, Rohde&Schwarz GmbH (Munich)  
1984-1985 Military service  
1981-1984 Internships at Motorola Inc. Basingstoke, UK; Schaumburg III, USA; Ft.  
Lauderdale, USA; Taunusstein, Germany

## Miscellaneous

### Workshop / conference organisation:

DAGStat 2016, 2019, Göttingen, München, co-org.  
European Conference on Data Analysis, Colchester, 2015, co-org.

8th Tongji-Ulm Summer School in Molecular Medicine: Cancer: From Molecules to Disease, 28.7. - 8.8.2014, Wuhan, China

European Conference on Data Analysis, Bremen, 2014, Program Chair  
Statistical Computing, 2009-2019, Reisensburg

Random Growing and Infinite Networks 2008, Blaubeuren

Memberships:

IEEE (senior member), International Biometric Society, Gesellschaft für Klassifikation (vice president), DGFA

Associate Editor:

Computational Statistics (Springer), Plos One, Advances of Data Analysis and Classification, Archives of Data Science

## Publications

1. Groß A, Kracher B, Kraus JM, Kühlwein SD, Pfister AS, Wiese S, Luckert K, Pötz O, Joos T, Van Daele D, De Raedt L, Kühl M, Kestler HA. Representing dynamic biological networks with multi-scale probabilistic models. **Commun Biol**. 2019;2(21).
2. Lausser L, Schmid F, Schirra LR, Wilhelm AFX, Kestler HA. Rank-based classifiers for extremely high-dimensional gene expression data. **Adv Data Anal Classif**. 2018;12(4):917-936.
3. Lausser L, Szekely R, Schirra LR, Kestler HA. The influence of multi-class feature selection on the prediction of diagnostic phenotypes. **Neural Process Lett**. 2018;48(2):863-880.
4. Schwab JD, Kestler HA. Automatic screening for perturbations in Boolean networks. **Front Physiol**. 2018;9:432.
5. Hühne H, Kessler V, Fürstberger A, Kühlwein S, Platzner M, Sühnel J, Lausser L, Kestler HA. 3D Network exploration and visualisation for lifespan data. **BMC Bioinformatics**. 2018;19(1):390.
6. Meyer P, Maity P, Burkovski A, Schwab J, Müssel C, Singh K, Ferreira F, Krug L, Maier H, Wlaschek M, Wirth T, Kestler HA\*, Scharffetter-Kochanek K\*. A model of the onset of the senescence associated secretory phenotype after DNA damage induced senescence. **PLOS Comput Biol**. 2017;13(12):e1005741. \*Equal contribution
7. Barth T, Kraus JM, Lausser L, Flossbach L, Schulte L, Holzmann K, Kestler HA\*, Möller P\*. Comparative gene-expression profiling of the large cell variant of gastrointestinal marginal-zone B-cell lymphoma, **Sci Rep**. 2017;7(1):5963. \*Equal contribution
8. Völkel G, Wiese S, Holzmann K, Kraus JM, Schneider F, Görlach M, Kestler HA. TraqBio - Flexible progress tracking for core unit projects. **PLoS One**. 2016;11(9):e0162857.
9. Schwab J, Burkovski A, Siegle L, Müssel C, Kestler HA. ViSiBool — visualization and simulation of Boolean networks with temporal constraints. **Bioinformatics**. 2016;33(4):601-04.
10. Schmid F, Schmid M, Müssel C, Sträng JE, Buske C, Bullinger L, Kraus JM, Kestler HA. GiANT: gene set uncertainty in enrichment analysis. **Bioinformatics**. 2016;32:1891-94.