

# Curriculum Vitae

## Konstantin Eckle

### Personal Details

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Name Konstantin Eckle  
Work address Mathematical Institute – Leiden University  
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### Research Interests

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Statistical Theory for Deep Learning, Statistical Inverse Problems,  
Multiscale Methods, Qualitative Constraints

### Research Positions

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since July 2017 Postdoc in Statistics, Leiden University  
July 2014 Phd Studies in Statistics, Ruhr-Universitaet Bochum  
- June 2017 Supervisor: Prof. Dr. Holger Dette  
Thesis title: Inference for qualitative features of a  
multivariate density

### Education

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October 2009 Studies in Mathematics at Saarland University  
- May 2014  
May 2014 Master in Mathematics, Saarland University  
Thesis title: Weak convergence in non-seperable metric spaces  
with applications to statistics  
May 2013 Bachelor in Mathematics, Saarland University  
Thesis title: Boundary element methods of variable order for  
Maxwell equations

## Teaching

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Lectures	Quantitative Research Methods
Tutorials	Introduction to Statistics for Geographers
	Probability Theory I
	Mathematics for Computer Scientists
	Differential Equations
	Numerical Mathematics

## Articles

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Eckle, K., Bissantz, N., Dette, H. **Multiscale inference for multivariate deconvolution.** *Electronic Journal of Statistics* (2017).

Eckle, K., Bissantz, N., Dette, H., Proksch, K. Einecke, S. **Multiscale inference for a multivariate density with applications to X-ray astronomy.** *Annals of the Institute of Statistical Mathematics* (2018).

Dunker, F., Eckle, K., Proksch, K., Schmidt-Hieber, J. **Tests for qualitative features in the random coefficients model.** submitted (2018).

Eckle, K., Schmidt-Hieber, J. **A comparison of deep networks with ReLU activation function and linear spline-type methods.** submitted (2018).

## Scientific Talks

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May 2018	Thematic Statistics Seminar, Amsterdam (invited talk)
April 2018	Institute of Mathematics and Statistics, University of Canterbury (invited talk)
March 2018	YES IX Conference, Eindhoven
August 2017	Bayesian and Nonlinear Inverse Problems Workshop, Leiden (invited talk)
July 2017	European Meeting of Statisticians, Helsinki (invited talk)
Mai 2017	Institute of Stochastics, Göttingen University (invited talk)
Mai 2016	Inverse Problems: Modeling and Simulation Conference, Fethiye (invited talk)
March 2017	12th German Probability and Statistics Days, Bochum
September 2014	Institute of Statistics, Ruhr-Universität Bochum (invited talk)

## Refereeing for Journals

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Statistical Papers