

1. Personal details

Name: M.C. (Mark) Veraar
Gender: Male
Date of birth: April 22, 1980
Place of birth: Delft, the Netherlands
Nationality: Dutch
Marital state: Married
Work address: Analysis
Delft University of Technology
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2628 CD Delft
The Netherlands
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2. Education

2a. *M.Sc.*

Study: Applied Mathematics
University: Delft University of Technology
Master's degree: June, 2003 (cum laude, top 5%)
Field of specialization: Stochastic analysis, functional analysis

2b *Ph.D.*

University: Delft University of Technology
Date: December 19, 2006 (cum laude, top 5%)
Promoters: Prof. dr. Ph. Clément, Prof. dr. J. van Neerven
Title of dissertation: Stochastic Integration in Banach Spaces and Applications to Parabolic Evolution Equations

3. Work experience

3a. Ph.D. position

July 1, 2003 - December 31, 2006
Delft University of Technology

Marie-Curie fellowship
11-2004 - 04-2005 and 12-2005 - 03-2006
Universität Karlsruhe, Germany
Host: Lutz Weis
11-2005
University of South Carolina, Department of Mathematics, United States

3b. Postdoctoral positions

January 1, 2007 - February 1, 2007.
Delft University of Technology

February 1, 2007 - August 1, 2007.
Phenomena in High Dimensions, European Research Training Network
Institute of Mathematics of Polish Academy of Science
Hosts: Prof. dr. P. Mankiewicz and Prof. dr. S. Kwapień, Warsaw, Poland

August 1, 2007 – October 1, 2007.
Delft University of Technology

Alexander von Humboldt Stipendium
October 8, 2007 – November 30, 2008
Universität Karlsruhe, Germany
Host: Prof. dr. L. Weis

December 1, 2008 – Januari 1, 2009.
Delft University of Technology

Assistant Professor, Delft University of Technology, 2009-2015
Associate Professor, Delft University of Technology, 2015-2018

3c. Current position

Full professor
Delft University of Technology

4. Research

My research fields are

- Stochastic analysis
- Harmonic analysis
- Partial differential equations
- Functional analysis

I combine techniques from the above fields to study linear and nonlinear deterministic and stochastic PDE.

International collaborators: (alphabetic order)

- Z. Brzeźniak (University of York),
- P. Cioica-Licht (University of Otago)
- Oscar Dominguez Bonilla (Universidad Complutense Madrid)
- L. Dümbgen (Universität Bern)
- S. van der Geer (ETH Zürich)
- B. Haak (University of Bordeaux)
- T. Hytönen (University of Helsinki)
- N. Kalton (formerly University of Missouri)
- S. Kwapien (University of Warsaw)
- M. Meyries (Universität Halle-Wittenberg)
- M. Ondreját (Academy of Sciences, Prague)
- P. Portal (Australian National University, Canberra)
- J. Rozendaal (IMPAN, Warsaw)
- R. Schnaubelt (Karlsruhe institute of Technology),
- L. Weis (Karlsruhe institute of Technology)
- J. Wellner (University of Seattle)
- J. Zimmerschied (formely Karlsruhe institute of Technology)

National collaborators

- A. Amenta (TUDelft)
- S. Cox (University of Amsterdam)
- C. Gallarati (Milano/TUDelft)
- N. Lindemulder (TUDelft)
- E. Lorient (TUDelft)
- J. van Neerven (TUDelft)
- M. Pronk (TUDelft)
- I. Yaroslavtsev (TUDelft)

5. Academic activities

Invited talks at International Conferences and Workshops

- Internet seminar workshop, “Stochastic Evolution equations” June, 2008: Blaubeuren, Germany.

- Banff International Research Station “Advances in Stochastic Inequalities and their Applications”, June, 2009, Banff, Canada.
- Isaac Newton Institute for Mathematical Sciences, “Stochastic Partial Differential Equations (SPDEs)”, January, 2010, Cambridge, England.
- “The Józef Marcinkiewicz Centenary Conference”, July 2010, Poznan, Poland.
- “International Conference on Evolution Equations”, October, 2010, Schmitten, Germany.
- “Workshop - Differential Equations - Stochastic & Deterministic”, June 2011, Prague, Czech Republic.
- “Evolution Equations: Randomness and Asymptotics”, October 2011, Bad Herrenalb, Germany.
- “Probability and analysis”, Conference in honor of the 70th birthday of prof. Kwapien, June, 2012, Bedlewo, Poland.
- Isaac Newton Institute for Mathematical Sciences, "Stochastic Partial Differential Equations (SPDEs)", follow-up meeting, September, 2012, Cambridge, England.
- “Workshop on Singular Integrals, Randomness and Weights”, August 2012, University of Helsinki.
- “Workshop: Infinite Dimensional Stochastic Systems: Theory and Applications” January 2014, Wittenberg, Germany.
- “High Dimensional Probability”, the Institut d'Etudes Scientifiques de Cargèse, May 2014, Corsica, France.
- “Infinite Dimensional Stochastic Systems: Theory and Applications” January 2014. Wittenberg.
Organizers : W. Grecksch (MLU Halle-Wittenberg), I. Pavlyukevich (FSU Jena), M. von Renesse (U Leipzig) and B. Schmalfuß (FSU Jena),
- “Stochastic Processes and Differential Equations in Infinite Dimensional Spaces”, King’s College, London. Organizers: Markus Riedle en Zdzislaw Brzezniak, March 2014
- “High Dimensional Probability VII Conference”, Cargese, Corsica, May 2014.
- “The 10th AIMS Conference on Dynamical Systems, Differential Equations and applications”, Madrid, July 2014.
- “International Workshop on Operator Theory and its Applications” (IWOTA), Amsterdam, July 2014.
- “Banach Spaces and their Applications in Analysis”, Centre international de rencontres mathématiques, Luminy, Marseille, January, 2015
- Analysis and PDE Meeting, Mathematical Sciences Institute, ANU, Canberra , January 2016.
- Dutch National Conference, Amsterdam March 2016.
- “The 11th AIMS Conference on Dynamical Systems, Differential Equations and applications”, Orlando, July 2016.
- “Operator semigroups in analysis: modern developments" Mathematical Conference Center of the Polish Academy of Sciences in Bedlewo April, 2017.
- “High Dimensional Probability”, Oaxaca, Mexico, May, 2017.

- “New perspectives in the theory of function spaces and their applications”
Mathematical Conference Center of the Polish Academy of Sciences in Bedlewo
September, 2017.
- PDE GAMM-Workshop on “Analysis of Partial Differential Equations”,
Eindhoven September 2017.
- “Harmonic analysis of elliptic and parabolic PDE”, Luminy, France, April 2018.
- “Stochastic Partial Differential Equations Equations”, Luminy, France, May 2018.
- NDNS-workshop, University of Twente, June 2018
- Probability and Analysis, Bedlewo, Poland, May 2019.
- Maximal regularity and nonlinear PDE, Kyoto, Japan, March 2019.

Contributed talks at International Conferences and Workshops

- European RTN network meetings: “Evolution equations for Deterministic and Stochastic Systems”
 1. June, 2004: Delft, the Netherlands
 2. May, 2005: Pisa, Italy
 3. June, 2006: Vienna, Austria
- 2nd Workshop on “Stochastic Equations and Related Topics” July, 2006: Jena, Germany.
- “Joint International Meeting UMI – DMV” June, 2007: Perugia, Italy.
- “Vector Measures, Integration and Applications” September 24 - 26, 2008, Eichstätt, Germany.
- “International Conference on Nonlinear Parabolic Problems in honour of prof. Amann”, May, 2009. Bedlewo, Poland
- “Positivity VI”, El Escorial, July, 2009, Madrid, Spain.
- “International Workshop on Operator Theory and its Applications” (IWOTA) July, 2011, Seville, Spain.

Other attended conferences:

- European RTN network meeting: “Evolution equations for Deterministic and Stochastic Systems” June, 2003: Roscoff, France.
- Levico Terme “Stochastic Partial Differential Equations and Applications – VII” January 2004: Levico Terme, Trento, Italy.
- Mathematisches Forschungsinstitut Oberwolfach: “Spectral Theory in Banach Spaces and Harmonic Analysis” July 25 – 31, 2004: Oberwolfach, Germany.
- Partial Differential Equations and Functional Analysis, in honour of the retirement of prof. Clément, 29/11/2004 – 01/12/2004, Delft, the Netherlands
- 3rd Annual Conference of the European RTN network: “Phenomena in High Dimensions” June 25-29, 2007: Samos, Greece.
- Conference on Evolution Equations the State of the Art, December 17 – 19, 2007: Reischensberg, Germany.
- Workshop "Harmonic analysis" June 4-8, 2008, Parma (Italy)

- Isaac Newton Institute for Mathematical Sciences, “Stochastic Partial Differential Equations (SPDEs)”,
 1. Workshop on “Rough Paths, SPDEs and Related Topics”, April, 2010.
 2. Workshop on “Filtering” June, 2010

Research visits

- University of Bonn, April 19 – 23, 2004: Bonn (Germany), Host: Prof. dr. S. Albeverio
- University of South-Carolina, November, 2005: Columbia (South-Carolina, United States), Host: Prof. dr. M. Girardi
- University of York, Februari-March 2011, Host: Prof. dr. Z. Brzeźniak.
- University of Minnesota, United States, February-March 2012, Host: Prof. dr. S. Mayboroda
- Academy of Sciences, Prague, Czech Republic, March-April 2012, Hosts: Prof. dr. J. Seidler and dr. M. Ondreját
- TUBerlin, July, 2012, Host: Prof. dr. W. Stannat
- Analysis in Banach spaces, book project with Hytönen, van Neerven and Weis Bedlewo, Poland, October 2012.
- Universität Halle-Wittenberg, Hosts: Dr. M. Wilke and Dr. M. Meyries October 2009, November 2012, May 2013.
- Universitat de Barcelona, Host: Prof. dr. M. Sanz-Solé, June, 2013.
- Analysis in Banach spaces, book project with Hytönen, van Neerven and Weis Oberwolfach, Germany, Research in pairs, November 2013.
- Analysis in Banach spaces, book project with Hytönen, van Neerven and Weis, University of Karlsruhe, Klingenstein, Germany, October 2014, April, 2015, May 2018.
- Analysis in Banach spaces, book project with Hytönen, van Neerven and Weis, Het Paviljoen, Rhenen, the Netherlands, October, 2015.
- University of Karlsruhe, Hosts: Prof. dr. R. Schnaubelt, Prof. dr. L. Weis. November 2004-April 2005, January 2006-Februari 2006, June 2006, July 2009, May 2011, July 2012, June 2015
- ANU Honorary Appointment and Persons of Interest Nomination, Australian National University, Canberra, Australia. Host: dr. P. Portal January/February, 2016
- Analysis in Banach spaces, book project with Hytönen, van Neerven and Weis, University of Helsinki, May, 2016.
- Warsaw, IMPAN institute, 2017, Host: dr. Rozendaal
- University of Helsinki: Helsinki (Finland), Host: Prof. dr. T. Hytönen, March 2008, April 2014, May 2016, August 2017.

5d. Colloquium talks

April, 2004:	Bonn (Germany)
April, 2004:	Delft (the Netherlands)
June, 2004:	Blaubeuren (Germany)
November, 2004:	Karlsruhe (Germany)
February, 2005:	Karlsruhe (Germany)
June, 2005:	Casalmaggiore (Italy)
October, 2005:	Jena (Germany)
November, 2005:	Columbia, South-Carolina (United states)
June, 2006:	Karlsruhe (Germany)
April, 2006:	Delft (the Netherlands)
November, 2006:	Delft (the Netherlands)
March, 2007:	Institute of Mathematics of Polish Academy of Science, Warsaw
March, 2007:	Warsaw University
April, 2007:	Institute of Mathematics of Polish Academy of Science, Warsaw
May, 2007:	Institute of Mathematics of Polish Academy of Science, Sopot
September, 2007:	Karlsruhe (Germany)
September, 2007:	Delft (the Netherlands)
January, 2008:	Ulm (Germany)
February, 2008:	Tübingen (Germany)
March, 2008:	University of Helsinki (Finland)
November, 2008:	Kiel (Germany)
December, 2008:	Delft (the Netherlands)
March, 2009:	Leiden (the Netherlands)
July, 2009:	Karlsruhe (Germany)
October, 2009:	Halle (Germany)
May, 2010:	Leiden (the Netherlands)
June, 2010:	Köln, (Germany)
August, 2010:	University of Helsinki, (Finland)
February, 2011	University of York (England)
May, 2011	Karlsruhe (Germany)
February, 2012	Minneapolis (USA)
March-April, 2012	Prague (Czech Republic, lecture series)
July, 2012	TU-Berlin (Germany)
July, 2012	Karlsruhe (Germany)
October, 2012	Halle (Germany)
January, 2013	Jyväskylä (Finland)
June, 2013	Universitat de Barcelona (Spain)
July, 2013	Darmstadt (Germany)
April, 2014	Helsinki (Finland)
April, 2015	Amsterdam (Netherlands)
June, 2015	Karlsruhe (Germany)
February, 2016	Canberra (Australia)
February, 2016	Sydney (Australia)
May, 2016	Helsinki (Finland)
April, 2017	Amsterdam (Netherlands)
May, 2017	Warsaw (Poland)

November, 2017	Leiden (Netherlands)
March, 2018	Delft (Netherlands)
November, 2018	Oxford (England)

Organizational activities

- Co-organizer European RTN network meetings:
“Evolution equations for Deterministic and Stochastic Systems”
June, 2004: Delft, the Netherlands.
- Active in Open Days of Technische Wiskunde/Applied Mathematics.
- Co-organizer of “Positivity VII: Zaanen Centennial Conference”, July 2013 at the Science Campus of Leiden University, the Netherlands.
- Board member of “Koninklijk Wiskundig Genootschap” which is the Dutch Society of Mathematics (as of April 2013).
- Board member of the management team of Pythagoras, a Dutch mathematical magazine for High School students.
- Coordinator of more than 50 student teaching assistants for the Bachelor and Master of Applied mathematics in Delft since 2012.
- Part of the onderwijs visitatie of Technische Wiskunde/Applied Mathematics at TUDelft, 2013.
- Member of the Board of Examiners Technische Wiskunde/Applied Mathematics at TUDelft since 2013.
- Co-organizer of “Nederlands Mathematisch Congres 2014”, April 2014, TUDelft, the Netherlands.
- “A day of stochastic analysis”, Delft, March 31, 2016
- Workshop “Harmonic analysis for stochastic PDEs”, Delft, July 2018 (chair).
- Equadiff conference, Leiden, June 2019, Session organizer

Referee/reviewer:

Journal of Differential Equations
London Mathematical Society
Bulletin of the Polish Academy of Sciences
Studia Mathematica
Journal of Mathematical Analysis and Applications
Illinois Journal of Mathematics
Probability Theory and Related Fields
Annals of Applied Probability
Journal of Evolution Equations
Indagationes Mathematicae
Electronic Journal of Probability Theory
Journal of Functional Analysis
Mathematische Nachrichten

Potential Analysis
Arxiv der Mathematik
Positivity
Complex Analysis and Operator Theory
Revista Matemática Iberoamericana
Integral equations and operators theory
Monatshefte für Mathematik
International Mathematics Research Notices.
Stochastic Partial Differential Equations: Analysis and Computations
International Journal of Stochastic Analysis
Annals of Probability
Analysis & PDE
Journal of Mathematical Physics
Mathematical Inequalities Applications
Journal of Approximation Theory
Stochastics
Stochastics and Dynamics
Discrete and Dynamical Systems
Discrete Analysis
Bulletin of the Belgian Math
Stochastic Processes and their Applications
SIAM Journal on Control and Optimization
Journal of Theoretical Probability

Referee for several conference proceedings
Referee for research proposals
Referee for PhD theses
Reviewer for MathSciNet (40 reviews)

Editorial work

- Ordered Structures and Applications Positivity VII (Zaanen Centennial Conference), Conference proceedings, 2016
- Member of the editorial board of the journal *Advances in Operator Theory* since 2016
- Member of the editorial board of *Indagationes Mathematicae* as of 2019
- Member of the editorial board of *Extracta Mathematicae* as of 2019

5f. Scholarships and prizes

- Marie-Curie fellowship
11-2004 - 04-2005 and 12-2005 - 03-2006
Universität Karlsruhe, Germany, Host: Prof. dr. L. Weis
- Postdoctoral fellowship “Experienced Researcher” in the RTN project
“Phenomena in High Dimensions” , 01/02/2007 - 31/07/2007.

- Institute of Mathematics of Polish Academy of Science
Hosts: Prof. dr. P. Mankiewicz and Prof. dr. S. Kwapien
- Alexander von Humboldt fellowship 01/10/2007 - 30/11/2008
Universität Karlsruhe, Germany Host: Prof. dr. L. Weis
- Veni grant from NWO “The Netherlands Organisation for Scientific Research”
Project title “Stochastic maximal regularity and its applications”
01/01/2010 – 31/12/2012.
250.000 euros.
- “Vrije competitie” grant from NWO “The Netherlands Organisation for Scientific Research” Project: Maximal regularity for time-dependent problems, 2013 -2016.
250.000 euros
- Vidi grant from NWO “The Netherlands Organisation for Scientific Research”
Project title “Harmonic analysis for Stochastic Partial Differential Equations”
01/09/2014 – 31/08/2019.
800.000 euros.

6. Teaching

Teaching qualification (BKO) December 2010
English (C1-III-level) German fluent (C1-level)

6a. Lectures

Service teaching:

- Analysis and Linear Algebra, Delft 2003-2006.
- Analysis and Linear Algebra, Delft 2009-2010.

Bachelor courses:

- Wiskundige Structuren. Delft 2010-2016. OpenCourseWare at TUDelft:
<http://ocw.tudelft.nl/courses/technische-wiskunde/wiskundige-structuren/course-home/>
- Analysis 1, 2011-2017 (exercises).
- Real analysis, Delft since 2016. Lecture notes on second part on measure theory available at http://fa.its.tudelft.nl/~veraar/teaching/lecture_notes_KW2.pdf

Master courses:

- Harmonic analysis, Karlsruhe 2008.
- Partial differential equations and Functional analysis, Delft 2010-2017.
- Stochastic differential equations, Mastermath, Utrecht, 2013, 2015, 2017.
- Local coordinator of yearly Internet Seminar on Functional Analysis, 2009-...

6b. Seminars

- Probability theory in Banach spaces. Delft 2010.

- R-boundedness, square functions and radonifying operators, Delft 2013.
- Maximal regularity and quasi-linear evolution equations, Leiden 2013.
- Harmonic analysis with weights, Delft, 2015

6c. Supervision:

PhD students

- Msc. M. Pronk: Malliavin Calculus in UMD spaces, 2009-2013. Defended November 12th, 2013. Thesis title: “Stochastic evolution equations with adapted drift”.
- Msc. C. Gallarati, since January 2013-2017. Project: “Maximal Regularity for Time-Dependent Problems”, Defended March 31th, 2017.
- Msc. N. Lindemulder, since September 2014-2019. Project: “Harmonic analysis for Stochastic Partial Differential Equations”
- Msc. I. Yaroslavtsev, February 2015-2019. Project: Poisson noise in PDEs
- Msc. E. Lorist, since October 2016-2020, Project: “Harmonic analysis for Stochastic Partial Differential Equations”

Postdocs

- Dr. A. Amenta, September 2016-2018.

Master students:

- S. Cox. Geometric Properties of Randomized UMD Banach Spaces, 2006.
- J. van Leeuwen: A nonlinear Schrodinger equation, 2010/2011.
- D. Yan, Controlled paraproducts, 2012-2013.
- E. Lorist, Honours project in Harmonic Analysis, 2014.
- N. Lindemulder (Utrecht), Parabolic Initial-Boundary Value Problems with Inhomogeneous Data. A Maximal Weighted L_q-L_p-Regularity Approach, 2013/2014.
- B. Nieraeth, Beurling-Ahlfors Transform, 2015/2016.
- E. Lorist, Maximal functions, factorization, and the R-boundedness of integral operators, 2016.

Bachelor students:

- M. Wildeboer: Restricted invertibility, 2011.
- T. van Aalst: The commutator theorem, 2014.
- T. Amersfoort: The Khintchine inequality, 2014.
- A. den Gelder: Investigating various upper and lower bounds of the Steinitz constant, 2015/2016.
- L. Spek: De convolutie stelling van Titchmarsh, 2016/2017.
- A. Lee: Brownian Motion and the Airy Function, 2016/2017.
- H. van Wiechen, Characterizations of normal distributions, 2017/2018
- F. Michielsen, Yano's Extrapolation Theorem, 2017/2018

Teaching awards:

- 2nd place in the 2013/2014 teacher of the year award of Applied Mathematics
- 2nd place in the 2015/2016 teacher of the year award of Applied Mathematics
- 1st place in the 2016/2017 teacher of the year award of Applied Mathematics.
- 1st place in the 2016/2017 teacher of the year award of faculty EEMCS
- 2nd place in the 2017/2018 teacher of the year award of Applied Mathematics

• **Publication list**

7a: Journal publications

- [1] On the action of Lipschitz functions on vector-valued random sums,
Archiv der Mathematik (Basel) **85** (2005), no. 6, 544-553. (with J. van Neerven)
- [2] Stochastic integration in UMD Banach spaces,
Annals Probab. **35** (2007), 1438-1478. (with J. van Neerven and L. Weis)
- [3] Randomized UMD Banach Spaces and decoupling inequalities for stochastic integrals,
Proc. Amer. Math. Soc. **135** (2007), no. 5, 1477-1486.
- [4] A stochastic Datko-Pazy theorem,
J. Math. Anal. Appl. **329** (2007), no. 2, 1230-1239. (with B. Haak and J. van Neerven)
- [5] Continuous local martingales and stochastic integration in UMD Banach spaces,
Stochastics **79**, (2007), no. 6, 601-618.
- [6] Some remarks on tangent martingale difference sequences in L^1 spaces,
Electron. Commun. Probab. **12** (2007), 421-433. (with S. Cox)
- [7] Non-autonomous stochastic Cauchy problems in Banach spaces,
Studia Math. **185** (2008), no. 1, 1-34. (with J. Zimmerschied)
- [8] Embedding vector-valued Besov spaces into spaces of γ -radonifying operators,
Math. Nachr. **281** (2008), no. 2, 238--252. (with N. Kalton, J. van Neerven and L. Weis)
- [9] Itô's formula in UMD Banach spaces and regularity of solution of the Zakai equation,
J. Differ. Equations **245** (2008), no. 1, 30-58. (with Z. Brzeźniak, J. van Neerven and L. Weis)
- [10] Stochastic equations in UMD Banach spaces,
J. Functional Anal. **255** (2008), no. 4, 940-993. (with J. van Neerven and L. Weis)
- [11] On Besov regularity of Brownian motions in infinite dimensions.
Probab. Math. Stat. **28** (2008), no. 1, 143-162. (with T. Hytönen)
- [12] A note on optimal probability lower bounds for centered random variables,
Colloq. Math. **113** (2008), no. 2, 231-240.
- [13] Correlation inequalities and applications to vector-valued Gaussian random variables and fractional Brownian motion. *Potential Anal.* **30**, No. 4 (2009).
- [14] R-boundedness of smooth operator-valued functions.
Integral Eq. Operator Th. **63** (2009). (with Hytönen)
- [15] Nemirovski's Inequalities Revisited.
Amer. Math. Monthly **117** (2010) no. 2. (with Dümbgen, van de Geer and Wellner)
- [16] Non-autonomous stochastic evolution equations and applications to stochastic partial differential equations. *J. Evol. Equ.* **10** (2010), 85-127.
- [17] Structurally damped plate and wave equations with random point force in arbitrary space dimensions.
Differential and Integral Equations. **23**, Nr. 9-10 (2010), 957-988. (with Schnaubelt)

- [18] On semi-R-boundedness and its applications.
J. Math. Anal. Appl. **363** (2010), Nr. 2, 431-443. (with Weis)
- [19] Vector-valued decoupling and the Burkholder-Davis-Gundy inequality.
Illinois J. Math. **55** (2011), Nr. 1, 343–375. (with Cox)
- [20] On Khintchine inequalities with a weight. *Proc. Amer. Math. Soc.* **138** (2010), Nr. 11, 4119–4121.
- [21] Stochastic maximal L^p -regularity.
Annals Probab. Vol. **40** (2012), No. 2, 788–812. (with van Neerven and Weis)
- [22] A note on maximal estimates for stochastic convolutions.
Czechoslovak Math. J. **61** (136) (2011), 743–758. (with Weis)
- [23] The stochastic Fubini theorem revisited. *Stochastics* Vol. **84** issue 4 (2012) 543-551.
- [24] Maximal L^p -regularity for stochastic evolution equations.
SIAM J. Math. Anal. **44** (3), 1372-1414. (with van Neerven and Weis)
- [25] Regularity of Gaussian white noise on the d -dimensional torus.
Banach Center Publ. **95** (2011), 385-398.
- [26] Is the stochastic parabolicity condition dependent on p and q ?
Electron. J. Probab. **17**, article 56 (2012). (with Brzezniak)
- [27] Sharp embedding results for spaces of smooth functions with power weights.
Studia Math. **208** (2012), 257-293. (with Meyries)
- [28] Tools for Malliavin calculus in UMD Banach spaces.
Potential Anal. **40** (2014), no. 4, 307–344. (with Pronk)
- [29] Weak characterizations of stochastic integrability and Dudley's theorem in infinite dimensions.
J. Theoret. Probab. **27**, No. 4, (2014) 1350-1374.. (with Ondreját)
- [30] Traces and embeddings of anisotropic function spaces.
Math. Ann. **360** (2014), No 3-4, 571–606. (with Meyries)
- [31] On the R-boundedness of stochastic convolution operators
Positivity. **19** (2015), no. 2, 355-384. (with J. van Neerven and L. Weis)
- [32] A new approach to stochastic evolution equations with adapted drift,
J. Differential Equations **256** (2014), no. 11, 3634–3683. (with M. Pronk)
- [33] Pointwise multiplication on vector-valued function spaces with power weights,
J. Fourier Anal. Appl. **21** (2015), no. 1, 95-136 (with Meyries)
- [34] Maximal regularity in γ -spaces.
J. Evol. Equ. 2015, **15** (2015), no. 2, 361-402 (with van Neerven and Weis)
- [35] Forward integration, convergence and nonadapted pointwise multipliers.
Infin. Dimens. Anal. Quantum Probab. Relat. Fields. **18** (2015) (with Pronk).
- [36] Characterization of a class of embeddings for function spaces with Muckenhoupt weights.
Arch. Math. **103** (2014), 435–449. (with Meyries)

- [37] R-boundedness versus γ -boundedness, *Arkiv för Matematik*, **54**(1) (2016), 125-145.
(with Kwapien and Weis),
- [38] On the ℓ^s -boundedness of a family of integral operators. To appear in *Rev. Mat. Iberoam.* **32** (2016), no. 4, 1277–1294. (with Gallarati and Lorient)
- [39] Estimates for vector-valued holomorphic functions and Littlewood-Paley-Stein theory. *Studia Math.* **228** (1) (2015), 73-99. (with Weis)
- [40] Maximal regularity for non-autonomous equations with measurable dependence on time. *Potential Analysis* **46** (2017), 527–567. (with Gallarati).
- [41] Evolution families and maximal regularity for systems of parabolic equations. *Adv. Differential Equations* **22** (2017), no. 3-4, 169–190. (with Gallarati)
- [42] Regularity of stochastic Volterra equations by functional calculus methods. *J. Evol. Equ.* **17** (2017), 523–536. (with Schnaubelt)
- [43] Cylindrical continuous martingales and stochastic integration in infinite dimensions. *Electron. J. Probab.* **21** (2016), 1-53. (with Ivan Yaroslavtsev)
- [44] Fourier multiplier theorems involving type and cotype. *J. Fourier Anal. Appl.* **24** (2018), 583–619. (with Jan Rozendaal)
- [45] Fourier multiplier theorems on Besov spaces under type and cotype conditions. *Banach J. Math. Anal.* Volume **11** (4), (2017), 713-743. (with Jan Rozendaal)
- [46] Rescaled extrapolation for vector-valued functions, Accepted for publication in *Publicacions Matemàtiques*. (with Alex Amenta and Emiel Lorient)
- [47] Fourier multiplier theorems in Banach function spaces with UMD concavifications, Accepted for publication in *Trans. Amer. Math. Soc.* (with Alex Amenta and Emiel Lorient)
- [48] Complex interpolation with Dirichlet boundary conditions on the half line, To appear in *Mathematische Nachrichten* (with Nick Lindemulder and Martin Meyries)
- [49] Sharp growth rates for semigroups using resolvent bounds, To appear in *Journal of Evolution equations* (with Jan Rozendaal)
- [50] Stability theory for semigroups using L_p - L_q Fourier multipliers, To appear in *Journal of Functional analysis* (with Jan Rozendaal)

Submitted/preprint

[a] Pointwise properties of martingales with values in Banach function spaces
<https://arxiv.org/abs/1803.11063> (with Ivan Yaroslavtsev)

[b] Stochastic maximal regularity for equations with adapted drift (with Pierre Portal)

[c] Stochastic integration in quasi-Banach spaces
<https://arxiv.org/abs/1804.08947> (with Sonja Cox and Petru Cioica-Licht)

[d] The heat equation with rough boundary conditions and holomorphic functional calculus
<https://arxiv.org/abs/1805.10213> (with Nick Lindemulder)

- *Book chapters*

(i) On the stochastic Fubini theorem in infinite dimensions. Stochastic partial differential equations and applications VII, Lect. Notes Pure Appl. Math., 245, Chapman & Hall/CRC, Boca Raton, FL, 2006, 323-336. (with J. van Neerven)

(ii) Conditions for stochastic integrability in UMD Banach spaces. In: Banach Spaces and their Applications in Analysis (in Honor of Nigel Kalton's 60th Birthday), De Gruyter Proceedings in Mathematics, De Gruyter, 2007, 125-146. (with J. van Neerven and L. Weis)

(iii) Stochastic equations with boundary noise. In: Nonlinear Parabolic Problems: Herbert Amann Festschrift Progress in Nonlinear Differential Equations and Their Applications, Vol. 60, Birkhäuser Verlag, 2011, 609-629. (with Schnaubelt)

(iv) Embedding results for γ -spaces. Recent Trends in Analysis: proceedings of the conference in honor of Nikolai Nikolski, Bordeaux, 2013, 209—220.

(v) Stochastic integration in Banach spaces – a survey. Stochastic Analysis: A Series of Lectures. Volume 68 of the series Progress in Probability pp 297-332. (with J. van Neerven and L. Weis).

- *Books:*

[A] Stochastic Integration in Banach Spaces and Applications to Parabolic Evolution Equations. Phd thesis, Delft University of Technology. 2006.

[B] Ordered structures and applications. Positivity VII (Zaanen centennial conference proceedings), Birkhäuser/Springer 507 p. (2016). (with van Gaans, de Jeu and de Pagter)

[C] Analysis in Banach spaces. Volume I: Martingales and Littlewood-Paley theory. Springer, *Ergebnisse der Mathematik und ihrer Grenzgebiete* 2016. (with T. Hytönen, J. van Neerven and L. Weis)

[D] Analysis in Banach spaces. Volume II: Probabilistic Methods and Operator Theory. Springer *Ergebnisse der Mathematik und ihrer Grenzgebiete* 2017. (with T. Hytönen, J. van Neerven and L. Weis)

- *Recreational and outreach:*

[I] Interview Erelid Rien Kaashoek: Ruimer bereik in onderzoek en bestuur, Nieuw Archief 5/17 nr. 2, 2016.