

1 Bibliographical Sketch

1.1 Russell Luke

Personal information

Prof. Dr. Russell Luke (male, born April 20, 1969)
Institut für Numerische und Angewandte Mathematik
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Academic Training

2001	Philosophy Doctor	University of Washington, Seattle
1997	Master of Science	University of Washington, Seattle
1991	Bachelor of Arts	University of California, Berkeley

Academic Career

2017–	Professor (W3), Universität Göttingen
2010–2017	Professor (W2), Universität Göttingen
2009–2010	Associate Professor, University of Delaware
2004–2009	Assistant Professor, University of Delaware
2002–2004	Postdoctoral Fellow, Pacific Inst. for the Mathematical Sciences, Canada
2001–2002	Postdoctoral Research Assistant, Universität Göttingen

Additional information

Nothing relevant.

Honours and Services

2013–	Advisory Board of the Institute für Numerische und Angew. Math.
2017–2019	Associate Editor, ESAIM: Control, Optimization and Calc. of Var.
1998–2001	Graduate Student Research Fellow, NASA/GSFC

Doctoral students (within the last five years)

Anna Martins	2015–	
Neal Hermer,	2015–	
Hieu Thao Nguyen	2014–2017	Postdoc, Delft University of Technology
David James	2014–2017	Industry, Frankfurt, Germany
Erdem Altuntac	2012–2016	Industry, Netherlands
Patrick Neumann	2012–2015	Industry, Frankfurt, Germany
Robert Hesse	2011–2014	Industry, Hannover, Germany

Third-Party funding (within last five years)

- 2016–2019 Australian Research Council DP160101537, “Relaxed reflection methods for feasibility and matrix completion problems” (partner Investigator with Prof. Dr. Jonathan Borwein and Prof. Dr. Jeffrey Hogan)
- 2011–2019 Deutsche Forschungsgemeinschaft (DFG), SFB755-A4, “Statistical Multi-scale Analysis for Photonic Imaging: from modelling to algorithms” (co-PI with Axel Munk)
- 2011–2019 DFG, SFB755-C2, “Inverse Scattering Problems Without Phase” (co-PI with Thorsten Hohage)
- 2015–2020 DFG GRK2088 Teilprojekt B5, “Probabilistic Analysis and Stochastic Algorithms in Fixed Point Theory” (co-PI with Prof. Dr. Anja Sturm)
- 2015–2017 German-Israeli Foundation, “Algorithms for Structured Nonconvex Optimization: theory and practice”, (co-PI with Prof. Marc Teboulle)
- 2013–2016 Bundesministerium für Bildung und Forschung (BMBF), “Effiziente Rekonstruktion aus hochdimensionalen unvollständigen Daten in der zerstörungsfreien Materialprüfung (ZeMat) (co-PI with Felix Kraemer)

Five selected publications

a) Articles with scientific quality assurance; book publications

- [r11] T. Aspelmeier, C. Charitha, and D. R. Luke, *Local Linear Convergence of the ADMM/Douglas–Rachford Algorithms without Strong Convexity and Application to Statistical Imaging*, SIAM J. Imaging Science **9** (2016), no. 2, 842–868.
- [r12] D. H. Bailey, J. M. Borwein, N. J. Calkin, R. Girgensohn, D. R. Luke, and V. H. Moll, *Experimental Mathematics in Action*, A K Peters Ltd, Natick, MA, 2007.
- [r13] C. Charitha, J. Dutta, and D. R. Luke, *Lagrange Multipliers, (Exact) Regularization and Error Bounds for Monotone Variational Inequalities*, Mathematical Programming A, posted on 2016, doi: 10.1007/s10107-016-1022-6.
- [r14] R. Hesse and D. R. Luke, *Nonconvex notions of regularity and convergence of fundamental algorithms for feasibility problems*, SIAM J. Optim. **23** (2013), no. 4, 2397–2419.
- [r15] A. S. Lewis, D. R. Luke, and J. Malick, *Local linear convergence of alternating and averaged projections*, Found. Comput. Math. **9** (2009), no. 4, 485–513.