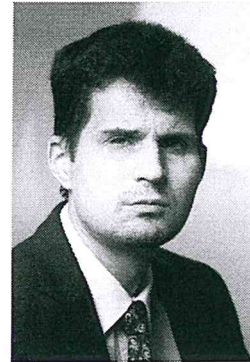


Curriculum Vitae, Ruben Jakob



Date of birth: 23. November 1978
Place of birth: Bonn
Citizenship: German
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Academic resume:

- April 2017 – June 2018: Hebrew lessons at Ulpan Petach Tikvah and Research visit at University Ariel, Israel.
- April 2011 – April 2017: Scientific assistant at the chair for Analysis of Professor Dr. Reiner Schätzle, at the Institute for Mathematics at University Tübingen.
- March 2008 – April 2011: Scientific employee at the chair for "Differential Geometry and Differential Equations" by Professor Dr. Ulrich Dierkes, at the Institute for Mathematics at University Duisburg/Essen.
- Dezember 2007 – Februar 2008: Research stay at the Hausdorff-Research-Institute for Mathematics in Bonn, supported by the DFG.
- June 2006 – November 2007: Research visit at the ETH Zürich, supported by a research stipend of the DFG.
- Oktober 2005 – May 2006: Scientific employee at the Institute for Mathematics

at University Duisburg/Essen, achievement of an extension of the DFG-project „Singular Geometric Variational Problems and Partial Differential Equations”, in collaboration with Professor Dr. Ulrich Dierkes.

- April 2005 – September 2005: Research visit at University of California, Santa Cruz, supported by a research fellowship of the DFG.
- April 2004 – March 2005: Scientific Assistant at the Institute for Mathematics at University Bonn.

Education:

- April 17th, 2009: Habilitation in “Mathematics” at University Duisburg/Essen, supervised by Professor Dr. Ulrich Dierkes.
- July 19th, 2004: Ph.D.-degree in “Mathematics” at University Bonn, with best mark “Summa cum Laude”, supervised by Prof. Dr. Dr. h.c. mult. S. Hildebrandt and Prof. Dr. H. von der Mosel.
- August 13th, 2003: Diplom (Master-degree) in Mathematics (Subsidiary subject: Physics) at University Bonn.
- April 2003: Fellowship of the International Graduate School of Bonn (BIGS)
- September 25th, 2000: Vordiplom (Bachelor-degree) in Mathematics (Subsidiary subject: Physics) at University Bonn
- 1989–1998: Clara-Schumann-Gymnasium-Bonn, final exam with mark 1,5

Expertise: Analysis, Partial Differential Equations, Calculus of Variations, Differential Geometry, Axiomatic Geometry, Measure Theory, Stochastics, command of MS-Office and Latex 2e, and basic mastery of C++.

Professional experience: Mathematical research and teaching at Universities, core areas: Geometric Analysis, Partial Differential Equations and Calculus of Variations.

Languages: German (perfect), English (excellent), French and Hebrew (satisfactory)

Awards and grants: Post-Doc-stipend at Ariel University (December 2017), “Hausdorff-Gedächtnis Award” for my Ph.D.-thesis (March 2005), DFG-research-stipend and Leopoldina-research-stipend (December 2004)

My scientific publications:

- 1) **Jakob, R.:** Unstable extremal surfaces of the “Shiffman-functional”. Calc. Var. **21**, 401–427 (2004).
(Short version of my Master-thesis)

- 2) **Jakob, R.:** Unstable extremal surfaces of the “Shiffman functional” spanning rectifiable boundary curves. *Calc. Var.* **28**, 383–409 (2007). (Extension of my Master-thesis)
- 3) **Jakob, R.:** A “quasi maximum principle” for \mathcal{L} -surfaces. *Ann. I.H. Poincaré – Analyse Non-linéaire* **28**, 549–561 (2007).

Articles which are related to my Ph.D.-thesis:

- 4) **Jakob, R.:** H-surface-index-formula. *Ann. I.H. Poincaré – Analyse Non-linéaire* **22**, 557–578 (2005). (Short version of my Ph.D.-thesis)

Articles which I produced during my “Habilitation” (2006–2010)

- 5) **Jakob, R.:** Schwarz operators of minimal surfaces spanning polygonal boundary curves. *Calc. Var.* **30**, 467–476 (2007).
- 6) **Jakob, R.:** Finiteness of the set of solutions of Plateau’s problem for polygonal boundary curves. *Ann. I.H. Poincaré – Analyse Non-linéaire* **24**, 963–987 (2007).
- 7) **Jakob, R.:** Local boundedness of the set of solutions of Plateau’s problem for polygonal boundary curves. *Ann. Glob. Anal. Geom.* **33**, 231–244 (2008).
- 8) **Jakob, R.:** Finiteness of the number of solutions of Plateau’s problem for polygonal boundary curves II. *Ann. Glob. Anal. Geom.* **36**, 19–35 (2009).
- 9) **Jakob, R.:** Boundary branch points of minimal surfaces spanning extreme polygons. *Result. Math.* **55**, 87–100 (2009).
- 10) **Jakob, R.:** About the finiteness of the set of solutions of Plateau’s problem for polygonal boundary curves. *Analysis* **29**, 365–385 (2009).

Publications resulting from my post-doc-period in Tübingen (2011–2016)

- 11) Bergner^{PI}, M., **Jakob, R.**^{PI}: Exclusion of boundary branch points of minimal surfaces. *Analysis* **31**, 181–190 (2011).
- 12) Desideri, L.^{PI}, **Jakob, R.**^{PI}: Immersed solutions of Plateau’s problem for piecewise smooth boundary curves with small total curvature. *Result. Math.* **63**, 891–901 (2013)
- 13) Bergner^{PI}, M., **Jakob, R.**^{PI}: Sufficient conditions for Willmore-immersions in \mathbb{R}^3 to be minimal surfaces. *Ann. Glob. Anal. Geom.* **45**, 129–146 (2014).
- 14) Bergner^{PI}, M., **Jakob, R.**^{PI}: Erratum to: Sufficient conditions for Willmore-immersions in \mathbb{R}^3 to be minimal surfaces. *Ann. Glob. Anal. Geom.* **45**, 147–150 (2014).
- 15) **Jakob, R.:** Short-time existence of the Möbius-invariant Willmore flow. *JGEA* **28**(2), 1151–1181 (2018)

Bonn, 07/26/2018

Ruben Jakob

A handwritten signature in blue ink that reads "Ruben Jakob". The signature is written in a cursive style and ends with a long horizontal flourish.