

Stephen J. Kleene

CONTACT INFORMATION 8 Blackstone Blvd Unit 1 585-738-4135
Providence, RI, 02906 skleene@math.mit.edu

RESEARCH INTERESTS Minimal surfaces, mean curvature flow, geometric analysis, differential geometry.

EMPLOYMENT **Brown University**, Providence, RI
Visiting Assistant Professor 2014-present
Massachusetts Institute of Technology, Cambridge, MA
CLE Moore Instructor, 2010-2014

EDUCATION **The Johns Hopkins University**, Baltimore, MD

Ph.D., Mathematics, June 2010

- Thesis Topic: *Singular behavior of minimal surfaces*
- Advisor: William P. Minicozzi II, Ph.D

M.S., Mathematics, June 2007

The University of Rochester, Rochester, NY

B.A. (with highest distinction) **Mathematics** June 2005.

REFEREED JOURNAL PUBLICATIONS

1. C. Briener and S. J. Kleene, A minimal lamination of the interior of a positive cone with linear curvature blowup, to appear *J. Geom. Anal* (2014).
2. N. Kapouleas, S. J. Kleene and N. M. Moller, Mean curvature self-shrinkers of high genus: Non-compact examples *J. Reine Angew. Math.* (2012), to appear.
3. S. J. Kleene and N. M. Moller, Self-Shrinkers with a rotational symmetry, *Trans. Amer. Math. Soc.* (2012) , to appear.
4. S. J. Kleene, A minimal lamination with cantor set-like singularities, *Proc. Amer. Math. Soc.* vol. 140, no. 4 (2012) 1423-1436.
5. M. Calle, S. J. Kleene and J. Kramer, Width and flow of hyper surfaces by curvature functions, *Trans. Amer. Math. Soc.* vol. 363, no. 3 (2011) 1125-1135.

SUBMITTED JOURNAL PUBLICATIONS

1. G. Drugan and S. J. Kleene, Immersed self shrinkers.
2. C. Breiner and S. J. Kleene, Logarithmically spiraling helicoids.
3. N. Kapouleas, S. J. Kleene and N. M. Moeller, Non-compactness in moduli spaces of embedded finite topology minimal surfaces.

PAPERS IN PREPARATION

1. N. Kapouleas, S. J. Kleene and N. M. Moller, Complete embedded self shrinkers near the cylinder.
2. C. Breiner and S. J. Kleene, Prescribing blowup rate for minimal laminations of tubes.

AWARDS AND GRANTS

-2010-2014: NSF Postdoctoral Research Fellowship

INVITED TALKS

- IMPA, Rio De Janeiro, Jan 2015
- AMS Sectional Meeting, UNC-Greensboro, Oct 2014
- Geometric Analysis Seminar, Princeton University, Oct 2013
- Geometric Analysis Seminar, The Johns Hopkins University, Oct 2013
- AMS Sectional Meeting, Temple University, Oct 2013
- CAARMS, UCSD, Jul 2013
- Workshop on Minimal Surfaces, 3-Manifold Topology, MIT, Apr 2013
- Department of mathematics colloquium, University of Rochester, Apr 2013
- Lehigh Geometry/Topology Conference, Lehigh University, May 2012
- Differential Geometry Seminar, CUNY Graduate Center, Mar 2012
- Geometric Analysis Seminar, Massachusetts Institute of Technology, Apr 2011
- Graduate and Postdoc Workshop, Princeton University, Mar 2011
- AMS Sectional Meeting, Syracuse University, Oct 2011
- PRIMA, Vancouver, Jul 2010
- Minimal Surfaces Conference, University of Arkansas, Fayetteville, Apr 2010
- Graduate and Postdoc Workshop, JHU, Mar 2010
- Centro Di Giorgi, Pisa, Italy, Jul 2009

TEACHING EXPERIENCE

- Instructor, Spring 2014
Math 52 - Linear Algebra
Department of Mathematics,
Brown University
- Instructor, Spring 2014
Math 54 - Linear Algebra
Department of Mathematics,
Brown University
- Instructor, Spring 2013
Math 18.04 - Complex Analysis with Applications
Department of Mathematics,
Massachusetts Institute of Technology
- Instructor, Spring 2012
Math 18.950 - Differential Geometry
Department of Mathematics,
Massachusetts Institute of Technology
- Recitation Leader, Spring 2011
Math 18.01A - Calculus
Department of Mathematics,
Massachusetts Institute of Technology
- Recitation Leader, Fall 2010
Math 18.02 - Calculus
Department of Mathematics,
Massachusetts Institute of Technology

SERVICE

Referee for: *J. Geom Anal., Trans. Amer. Math. Soc, Proc. Amer. Math. Soc, Geometriae Dedicata.*
Organized: Co-organizer of the MIT Geometric Analysis seminar, 2011-2014.

REFERENCES

William P. Minicozzi
 Professor
 Department of Mathematics
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Massachusetts Institute of Technology

Tobias Colding

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