

Adrian Hagerty

Curriculum Vitae

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Education

- 2009–2013 **BS**, *Carnegie Mellon University*.
Mathematics
- 2013–2019 **Ph.D.**, *Carnegie Mellon University*.
(Expected) Mathematics

Publications

- 2018 **Relaxation of Functionals in the Space of Vector-Valued Functions of Bounded Hessian**, *A. Hagerty*, to appear in *Calculus of Variations and Partial Differential Equations*.
- 2018 **A Homogenization Result in the Gradient Theory of Phase Transitions**, *R. Cristoferi, I. Fonseca, A. Hagerty, C. Popovici*, submitted to *Interfaces and Free Boundaries*.
- 2018 **Second Order Structured Deformations in the Space of Bounded Hessian**, *A. Hagerty*, in progress.
- 2018 **Effects of Simultaneous Homogenization and Phase Transition**, *R. Cristoferi, I. Fonseca, A. Hagerty*, in progress.

Presentations

- 2018 **Effects of Periodic Homogenization in Phase Transition Problems**, *Workshop on Topics in the Calculus of Variations: Recent Advances and New Trends*, Banff International Research Station.
- 2017 **Relaxation in the Space of Bounded Hessian**, *2017 SIAM Annual Meeting*, Pittsburgh, PA.
- 2017 **A Relaxing Look at Radon Measures**, *Graduate Student Seminar*, Carnegie Mellon University.
- 2016 **Isometric Embeddings & Geometric Rigidity**, *Graduate Student Seminar*, Carnegie Mellon University.

Fellowships

- 2016 **PIRE Fellowship**, Pittsburgh, PA, Bonn, Germany.
Received funding for research in the Calculus of Variations. Spent Summer 2016 in Bonn, Germany under the supervision of Professor Stefan Müller, gaining valuable experience and insights into new topics in the Calculus of Variations.

Teaching

- Summer 2018 **Basic Differential Calculus**, *Instructor*.
Fall 2017 **Concepts of Mathematics**, *Teaching Assistant*.
Summer 2017 **Basic Differential Calculus**, *Instructor*.
Spring 2017 **Vector Analysis**, *President*.
Summer 2015 **Introduction to Mathematical Software**, *Teaching Assistant*.
Spring 2015 **Multivariate Analysis**, *Teaching Assistant*.
Fall 2014 **Linear Algebra**, *Teaching Assistant*.
Summer 2014 **Basic Differential Calculus**, *Teaching Assistant*.
Summer 2014 **Introduction to Mathematical Software**, *Teaching Assistant*.
Spring 2014 **Multivariate Analysis**, *Teaching Assistant*.
Fall 2013 **Calculus in Three Dimensions**, *Teaching Assistant*.

Other Activities

- 2016–2018 **SIAM Student Chapter**, *President*.
- Put together bi-weekly seminars for graduate students
 - Organized weekly student working groups
 - Coached team of undergraduate Math and CS students for annual Math Contest in Modelling

Awards

- SIAM Student Chapter Certificate of Recognition.**