

CURRICULUM VITAE

CHARLES CHRISTOPHER JOHNSON

CONTACT INFORMATION

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CITIZENSHIP United States of America

EMPLOYMENT HISTORY

POSITION Visiting Assistant Professor
Wake Forest University
July 2015 - Present

POSITION Visiting Instructor
Clemson University
August 2014 - May 2015

EDUCATION

DEGREE Ph.D. in Mathematics
Dissertation: *Involutive Translation Surfaces and Panov Planes*
May 2014
Clemson University
Clemson, SC

RESEARCH INTERESTS

Dynamical systems, ergodic theory, flat surfaces, interval exchange transformations, low-dimensional topology, Teichmüller theory.

PUBLICATIONS & PREPRINTS

1. *The wild, elusive singularities of the T -fractal surface* (with R. Niemeyer), submitted for publication. Preprint available on the arXiv: <https://arxiv.org/abs/1703.06926>.
2. *Cutting sequences on square-tiled surfaces*, to appear in *Geometriae Dedicata*.
3. *Hyperelliptic translation surfaces and folded tori* (with M. Schmoll), *Topology and its Applications*, **161** (2014), 73 – 94.
4. *Pseudo-Anosov eigenfoliations on Panov planes* (with M. Schmoll), *Electronic Research Announcements in Mathematical Sciences*, **21** (2014), 89 – 108.
5. *An interval exchange transformation on a fractal surface* (with R. Niemeyer), in progress.
6. *Compositions of scaling involutions and measure-preserving transformations*, in progress.

INVITED TALKS

- TITLE From billiards in the T-fractal to non-singular transformations
LOCATION Ergodic Theory and Dynamical Systems Seminar
University of North Carolina, Chapel Hill
DATE November 29, 2016
- TITLE From billiards in the T-fractal to non-singular transformations
LOCATION Analysis Seminar
Clemson University
DATE November 1, 2016
- TITLE Non-Singular Ergodic Theory, Affine Interval Exchanges, and the T-fractal
LOCATION Colloquium
University of Maine
DATE October 13, 2016
- TITLE Can You Play Billiards in a Fractal?
LOCATION Colloquium
Wake Forest University
DATE September 23, 2015
- TITLE Eigenfoliations of half-translation tori and their universal covers
LOCATION AMS Western Spring Sectional
University of New Mexico
DATE April 5, 2014
- TITLE Dynamics on Panov planes
LOCATION UIUC Ergodic Theory Seminar
University of Illinois at Urbana-Champaign
DATE February 24, 2014
- TITLE Hyperelliptic translation surfaces and Panov planes
LOCATION International conference and workshop on surfaces of infinite type
Universidad Nacional Autónoma de México (Morelia campus)
DATE August 2, 2013
- TITLE Involutive translation surfaces and associated Panov planes
LOCATION AMS Southeastern Spring Sectional
University of Mississippi
DATE March 3, 2013

SERVICE

- DESCRIPTION Co-organizer of the *Invariant Measures of Smooth Dynamical Systems*
Special Session at the 2016 AMS Spring Southeastern Sectional meeting
DATE March 5 – 6, 2016
- DESCRIPTION Organizer of the Clemson Graduate Algebraic Geometry Seminar
DATE Summer and Fall 2014

DESCRIPTION Volunteer for the 2014 Southeastern Conference for Undergraduate Women in Mathematics
DATE November 15 – 16, 2014

DESCRIPTION President of AMS Graduate Student Chapter at Clemson University
DATE Academic year 2013 – 2014

DESCRIPTION Volunteer for the 2013 Southeastern Conference for Undergraduate Women in Mathematics
DATE October 26 – 27, 2013

DESCRIPTION Volunteer for Carolina Dynamics Symposium
DATE April 13 – 15, 2012

TEACHING EXPERIENCE

COURSE Linear Algebra
SCHOOLS Wake Forest University

COURSE Single Variable Calculus I
SCHOOLS Wake Forest University, Clemson University

COURSE Single Variable Calculus II
SCHOOLS Clemson University

COURSE Multivariable Calculus III
SCHOOLS Clemson University

COURSE Introduction to Number Theory
SCHOOLS Clemson University

COURSE Mathematics for Liberal Arts Majors
LOCATION Clemson University, Western Carolina University