

CURRICULUM VITAE

CHARLES CHRISTOPHER JOHNSON

CONTACT INFORMATION

ADDRESS Department of Mathematics
Rawles Hall, 831 E. 3rd St.
Indiana University
Bloomington, IN 47405

EMAIL ccjohnson@gmail.com
WEB PAGE <http://ccjohnson.org>

CITIZENSHIP United States of America

EMPLOYMENT HISTORY

POSITION Visiting Assistant Professor
Indiana University
August 2017 - Present

POSITION Visiting Assistant Professor
Wake Forest University
July 2015 - July 2017

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*, *Geom. Dedicata*, **190** (2017), 53 – 80.
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 <i>Invariant Measures of Smooth Dynamical Systems</i> 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	Indiana University, Wake Forest University
COURSE	Single Variable Calculus I
SCHOOLS	Indiana University, 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