

DANIEL CUZZOCREO

CURRICULUM VITAE

Northwestern University
Department of Mathematics
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EDUCATION

Boston University, Boston, MA
Ph.D. Mathematics May 2014
Advisor: Robert Devaney

Tufts University, Medford, MA
B.A. Mathematics, summa cum laude May 2009

University of Oxford 2007-2008

ACADEMIC EMPLOYMENT

Northwestern University, Visiting Faculty 2015-present
Smith College, Visiting Assistant Professor 2014-2015

RESEARCH INTERESTS

Discrete dynamical systems, complex dynamics, parameter spaces of rational maps

PUBLICATIONS

4. *Simple Mandelpinski necklaces for $z^2 + \lambda/z^2$.*
with R. Devaney
Difference equations, discrete dynamical systems and applications, 63–72, Springer Proc. Math. Stat., 180, Springer, Berlin, 2016.

3. *Accessible Mandelbrot sets in the family $z^n + \lambda/z^n$.*
with P. Blanchard, R. Devaney, E. Fitzgibbon
Qual. Theory Dyn. Syst. 15 (2016), no. 1, 49–66.

2. *A dynamical invariant for Sierpiński cardioid Julia sets.*
with P. Blanchard, R. Devaney, E. Fitzgibbon, S. Silvestri
Fund. Math. 226 (2014), no. 3, 253–277.

1. *Checkerboard Julia sets for rational maps.*
with P. Blanchard, F. Çilingir, R. Devaney, D. Look, E. Russell
Internat. J. Bifur. Chaos Appl. Sci. Engrg. 23 (2013), no. 2, 1330004, 13 pp.

PAPERS IN PREPARATION

5. *Sub-necklaces near the McMullen domain*

TALKS

Colloquium, Butler University	November, 2016
Dynamics Seminar, Indiana University-Purdue University Indianapolis	November, 2015
Dynamics Seminar, Northwestern University	October, 2015
Dynamics Seminar, Wesleyan University	April 2015
Dynamics Seminar, University of Chicago	February 2015
Joint Mathematics Meetings: AMS Session on Dynamical Systems and Ergodic Theory	January 2015
Complex Analysis, Dynamics and Geometry Seminar; University of Michigan	November 2014
Dynamical Systems Seminar, Boston University	April 2014
48th Spring Topology and Dynamics Conference, University of Richmond	March 2014
Department Talk, Smith College	March, 2014
Joint Mathematics Meetings: AMS Special Session on Complex Dynamics.	January 2014
28th Summer Conference on Topology and its Applications, Nipissing University	July 2013
GSO Graduate Seminar Series, Boston University	March 2013
18th International Conference on Difference Equations and Applications Barcelona, Spain	July 2012

TEACHING EXPERIENCE

Instructor, Northwestern University, 2015-present

Complex Analysis	Spring 2018
Single Variable Calculus II	Spring 2018, Winter 2018
Single Variable Calculus I	Winter 2018
Differential Calculus of Multivariable Functions	Fall 2017, Fall 2015
Integral Calculus of One-Variable Functions	Spring 2017, Spring 2016, Winter 2016
Differential Calculus of One-Variable Functions	Winter 2017, Fall 2015
Finite Mathematics	Winter 2017
Chaotic Dynamical Systems	Fall 2016
Elementary Differential Equations	Spring 2016

Course Coordinator, Northwestern University, 2016-2017

<i>Coordinating instruction and exams across all sections</i>	
Differential Calculus of Multivariable Functions (16 sections)	Fall 2017
Integral Calculus of One-Variable Functions (3 sections)	Spring 2017
Differential Calculus of One-Variable Functions (3 sections)	Winter 2017

Instructor, Smith College, 2014-2015

Calculus III	Spring 2015
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Instructor, Boston University, 2010-2013

Differential Equations	Summer 2013
Introduction to Linear Algebra	Summer 2012
Complex Variables	Summer 2011
Calculus II	Summer 2010

HONORS AND AWARDS

Departmental Award for Excellence in Teaching, Boston University	2012
Presidential Fellowship, Boston University	2009
The Benjamin G. Brown Scholarship, Tufts University	2009
Phi Beta Kappa, Delta Chapter of Massachusetts	2008

GRANTS

Undergraduate Research Assistant Program (Faculty Mentor), Northwestern University	2017
GSO Travel Grant, Boston University	2013

PROFESSIONAL DEVELOPMENT AND WORKSHOPS

AMS Mathematics Research Community, Snowbird, UT. Complex Dynamics.	June 2013
Topics in Complex Dynamics Summer School, Barcelona, Spain.	June 2011

ACADEMIC SERVICE AND OUTREACH

Study Brunch, Faculty Attendee, Northwestern University	2015-17
Volunteer, Graduate Research Opportunities for Women Northwestern University	October 2017, October 2016
Volunteer, Women in Mathematics in New England Northwestern University	September 2014
Co-organizer, Graduate Student Dynamics Seminar Boston University	2010-2013
Reviewer, AMS Mathematical Reviews Peer-reviewed journal referee	

MEMBERSHIPS

American Mathematical Society
Mathematical Association of America