Joshua J. Clemons

Virginia Tech, Department of Mathematics,
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Education

2010 PhD in Mathematics University of North Carolina at Chapel Hill

- **Thesis:** *Dynamical properties of Weierstrass elliptic functions on square lattices*
- **Advisor:** Prof. Jane Hawkins

2005 BS in Mathematics North Carolina State University, Summa Cum Laude

Publications

1. *Elliptic functions with connected Julia sets.*(with Lorelei Koss) Topology Proceedings, 2018
2. *Connectivity of Julia sets for Weierstrass elliptic functions on square lattices.* Proceedings of the American Mathematical Society, 2011
3. *Dynamical properties of Weierstrass elliptic functions on square lattices.* Doctoral dissertation.

Professional Activity

- **Seminar/Conference Presentations:**

  - *AMS Joint Meetings* (San Diego CA, January 2018)
  - *VT Complex Dynamics Seminar (13 talks)* (Blacksburg VA, 2010 - 2013)
  - *VT Complex Dynamics Seminar (Organizer)* (Blacksburg VA, 2011-2012)
  - *VT Math Club* (Blacksburg VA, Fall 2013,Fall 2017)
  - *Carolina Dynamics Symposium* (Greenville SC, April 2010)
  - *AMS Joint Meetings* (New Orleans LA, Jan 2011, San Diego CA, Jan 2018)
  - *Carolina Dynamics Symposium* (Raleigh NC, April 2010)
  - *Workshop on Dynamical Systems and Related Topics* (College Park MD, April 2010)
  - *Boston University Dynamics Seminar* (Boston MA, February, 2010)
  - *UNC Ergodic Theory and Dynamical Systems Seminar (3 talks)* (Chapel Hill NC, 2009-2010)
  - *UNC Graduate Seminar* (Chapel Hill NC, December 2008)

- **Conferences Attended:**

  - *Oxtoby Centennial Conference* (Philadelphia, October 2010)
  - *Fields Institute Workshop on Dynamical Systems* (North Bay Canada, May 2010)
  - *AMS Joint Meetings* (San Francisco, January 2010)
  - *Graduate School on Ergodic Theory* (Guilford, Surrey UK, March 2009)
  - *Applications of Dynamical Systems* (Snowbird, May 2005)

Teaching Experience

- **Instructor** *Precalculus with Transcendental Functions*, Virginia Tech
  - Fall 2017
  - Spring 2017
  - Fall 2016
  - Spring 2016
  - Fall 2015

- **Instructor** *Elementary Calculus*, Virginia Tech
  - Fall 2018
  - Spring 2019

- **Instructor** *Introduction to Proofs*, Virginia Tech
  - Spring 2014

- **Instructor** *Chaos and Dynamical Systems*, Virginia Tech
  - Spring 2015
  - Spring 2013

- **Coordinator/Instructor** *Geometry and the Mathematics of Design*, Virginia Tech
  - Spring 2015
  - Fall 2014
  - Spring 2014
  - Fall 2013
  - Spring 2013
  - Fall 2012
  - Spring 2012
  - Fall 2011

- **Instructor** *Applied Combinatorics*, Virginia Tech
  - Spring 2019
  - Fall 2018
  - Spring 2018
  - Fall 2017
  - Spring 2017
  - Fall 2016
  - Spring 2016
  - Summer 2015
  - Spring 2015
  - Fall 2014
  - Spring 2012
  - Fall 2011
  - Summer 2011

- **Developer/Instructor** *Mathematics, A Liberal Arts Approach*, Virginia Tech
  - Summer 2016
  - Summer 2015
  - Summer 2014
  - Summer 2013
  - Summer 2012
  - Summer 2011

- **Instructor** *Introduction to Differential Equations*, Virginia Tech
  - Fall 2015
  - Spring 2011
  - Fall 2010

- **Instructor** *Calculus III*, Virginia Tech
  - Spring 2011
  - Fall 2010

- **Instructor** *Calculus II*, University of North Carolina at Chapel Hill | Summer 2008
 Spring 2008
 Fall 2007

- **Instructor** *Calculus I*, University of North Carolina at Chapel Hill | Fall 2009
 Summer 2007
 Spring 2007

- **Instructor** *Selected Topics In Mathematics*, UNC at Chapel Hill | Spring 2009
 Fall 2008

- **Instructor** *Pre-Calculus*, University of North Carolina at Chapel Hill | Summer 2009

- **Instructor** *Inductive and Deductive Reasoning*, Johns Hopkins University, CTY | Summer 2008

- **Lab Instructor** *FORTRAN*, North Carolina State University | Spring 2003-Sping 2005

- **S. I. Leader** *Mathematics/Chemistry*, North Carolina State University | Spring 2004-Spring 2005

Professional Service and Memberships

- *VT Complex Dynamics Seminar Organizer* | 2011-2012

- *UNC-CH Graduate Mathematics Association Tea Organizer* | 2006-2007

- *American Mathematical Society* | Since 2005

- *Society of Industrial and Applied Mathematics* | 2005, Since 2009

- *Phi Beta Kappa* | Since 2005

- *Phi Kappa Phi* | Since 2005

Awards and Scholarships

2008 GAANN Teaching Fellowship

2005 Mathematics Undergraduate Research Award, North Carolina State University, Dept. of Mathematics

2005 Top Scholar Award, North Carolina State University, Dept. of Mathematics

2005 Phi Beta Kappa Inductee

2004 Mrs. Roberts C. Bullock Award and Scholarship

2001 Pulp and Paper Engineering Scholarship

2001 Parker Hannifin Engineering Scholarship

Computer Experience and Foreign Languages

- Mathematica- VT Math Emporium Quiz/Exam problem development, Visualizing dynamical systems

- FORTRAN- 2.5 years of lab instructor experience

- LaTex, HTML, Maple, MATLAB

- Reading comprehension in French