

Georgi Kapitanov

Curriculum Vitae

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Date of Birth: November, 6, 1984	

My interests in biology, health, and medicine, combined with my fascination with mathematics, have naturally led me to pursue research in biomathematics. The focus of my Ph.D. research has been mathematical models in cancer, involving partial differential equations, theory of semigroup operators, and ordinary differential equations. I have the ambition and the biological and mathematical backgrounds necessary to address biological questions by developing new or expanding upon already existing mathematical models.

Education

- Ph.D. in Mathematics, Vanderbilt University, Nashville, TN, expected graduation May, 2012
- M.S. in Mathematics, Vanderbilt University, Nashville, TN, 2009
- B.S. in Mathematics, B.S. in Computer Science, Sewanee - University of the South, Sewanee, TN, 2003-2007

Publications

- *A Mathematical Model of Cancer Stem Cell Lineage Population Dynamics with Mutation Accumulation and Telomere Length Hierarchies*, Math. Model. Nat. Phenom, to appear

Talks/Posters/Presentations

- *A Mathematical Model of Cancer Stem Cell Lineage Population Dynamics with Mutation Accumulation and Telomere Length Hierarchies* - Poster, 2011 Workshop for Young Researchers in Mathematical Biology, MBI, Ohio State University, Columbus, OH, USA, 2011
- *Mutation-Generation Model of Cancer Formation* - Colloquium, University of Tennessee at Chattanooga, Chattanooga, TN, USA, 2011
- *Mutation-Generation Model of Cancer Formation* - 25th Graduate Student Research Symposium, Vanderbilt University, Nashville, TN, USA, 2011
- *Archimedes and Calculus: Finding the Area of a Circle* - Undergraduate Math Seminar, Vanderbilt University, Nashville, TN, USA, 2010
- Several talks in Biomath Seminar, Vanderbilt University, Nashville, TN, USA, 2010

Attended Conferences/Workshops/Summer Schools

- NHLBI-VCU World Congress, William and Mary, Williamsburg, VA, USA, 2011
- Differential Equations Weekend, Mississippi State University, Mississippi State, MS, USA, 2011
- CTW: Modeling and Computation of Biomolecular Structure and Dynamics, MBI, Ohio State University, Columbus, OH, 2011
- 24th Annual Shanks Conference and Lecture: Mathematical Modeling in the Medical Sciences, Vanderbilt University, Nashville, TN, USA, 2009
- MITACS 2009 Summer School on the Mathematics of Invasion in Ecology and Epidemiology, Banff, Alberta, Canada, 2009

Awards and Honors

- Member of Phi Beta Kappa Academic Honor Society, Sewanee - University of the South, Sewanee, TN, 2007- present
- Member of Omicron Delta Kappa Leadership Honor Society, Sewanee - University of the South, Sewanee, TN, 2007 - present
- Featured in *Who's Who Among Students in American Universities and Colleges*, Sewanee - University of the South, Sewanee, TN, 2007
- Head Proctor (Position equivalent to Head Residential Assistant at other institutions), Sewanee - University of the South, Sewanee, TN, 2006-2007 academic year

Teaching Responsibilities

Vanderbilt University, Nashville, TN, USA:

- Teacher/Lecturer: Math 155B, Spring 2011
- Teaching Assistant: Math 155B, Fall 2011
- Teaching Assistant: Math 150A, Fall 2010
- Teaching Assistant: Math 196A, Spring 2010
- Teaching Assistant: Math 196A, Fall 2009
- Teaching Assistant: Math 155B, Spring 2009
- Teaching Assistant: Math 150A, Fall 2008
- Departmental Calculus Tutor: Fall 2007, Spring 2008

Computer languages experience

- Mathematica
- Java
- C
- Lisp
- Scheme
- HTML
- PHP