

## Theodore Dokos

1423 S Bentley Avenue, Unit B  
Los Angeles, CA 90025  
tdokos@math.ucla.edu

### Objectives

- Graduate school studies in mathematics, doctoral degree
- Computer science knowledge

### Education

- Undergraduate: The Ohio State University, Columbus Ohio, Class of 2012
  - Bachelor's in Mathematics with Distinction, *magna cum laude*
  - Honors:
    - Phi Beta Kappa
    - 2011 Putnam Mathematics Competition, Honorable Mention
- Graduate: University of California Los Angeles, Los Angeles California, 2012-present
  - Mathematics PhD track

### Programming Languages

- Working knowledge of Python, C++
- Basic knowledge of LISP, Haskell, Javascript, Matlab/Octave
- Code sample available at [github.com/ted-dokos/](https://github.com/ted-dokos/)

### Independent Study

- Steven Skiena, *The Algorithm Design Manual*, most exercises from first 5 chapters.
- Project Euler, 70 solved problems.

### Work Experience

- Teaching assistant, UCLA: Fall 2012-present
  - Teaching Mathematics and Program in Computing (C++) courses.

### Selected Undergraduate Research

- NSA REU - Lyman Briggs College, Michigan State University: Summer 2011, advisor Bruce Sagan ([www.lymanbriggs.msu.edu/SURIEM/](http://www.lymanbriggs.msu.edu/SURIEM/))
  - Worked to develop the concept of st-Wilf equivalence on permutations of  $n$  letters
- OSU Working Group on Knot Theory: Summers 2009 and 2010, advisor Sergei Chmutov
  - Related coefficients of the ascending Conway polynomial to matrix-tree like determinants

### Papers

- T. Dokos, I. Pak, *The Expected Shape of Random Doubly Alternating Baxter Permutations*, Online J. Analytic Combinatorics, 9 (2014)  
(<http://analytic-combinatorics.org/index.php/ojac/article/view/94>)
- W. Chen, A. Dai, T. Dokos, T. Dwyer, B. Sagan, *On 021-Avoiding Ascent Sequences*, Electronic J. Combinatorics, 20 iss. 1 (2013), Paper 76  
(<http://www.combinatorics.org/ojs/index.php/eljc/article/view/v20i1p76>)
- T. Dokos, T. Dwyer, B. Johnson, B. Sagan, K. Selsor, *Permutation Patterns and Statistics*, Discrete Mathematics, 312-18 (2012), p. 2760-2775  
(<http://www.sciencedirect.com/science/article/pii/S0012365X12002361>)