

Anton Bobkov

CONTACT INFORMATION

Graduate Student
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EDUCATION

University of California, Los Angeles (*graduate*) **Fall 2011 to present**
PhD, Mathematics (in progress)

Advisor: Matthias Aschenbrenner

Research interests: Mathematical logic, model theory, NIP theories, vc-density

University of California, Los Angeles (*undergraduate*) **Graduated Spring 2011**

- *B.S.* in Mathematics, *B.A.* in Physics
- Sherwood Prize
- Departmental Highest Honors in Mathematics, College Honors
- GPA: 3.82 (Magna Cum Laude)
- William Lowell Putnam Mathematics Competition
 - 2008 - score 30
 - 2009 - score 19

UNDERGRADUATE RESEARCH

Cryptography REU at Northern Kentucky University **Summer 2009**
Implemented a variant of MXL algorithm in computational algebra system MAGMA

Research assistant for Vladimir Vassiliev **2008 - 2011**
I did various numerical simulations in C++ for AGIS gamma-ray telescope. This included forward and inverse kinematics for Stewart platform, ray casting focusing simulations, and laser calibration. I have also worked on network interfacing with Gumstix boards using CORBA as well as installing and configuring a custom linux kernel.

TEACHING

Intermediate C++ Programming, Linear Algebra, Calculus

PAPERS

Bobkov, A. *VC-density for trees*, in preparation

SOFTWARE EXPERIENCE

Unix-like systems

I am comfortable working in command line environment, including tasks such as

- installing and managing web-server, repository server, ssh server
- code building, editing, and version control

Languages

C++, C#, bash, Java, PHP, MAGMA

Code management

CMake, Makefile, git, subversion, Visual Studio, Unity3D

Standards

TCP/IP, .NET, CORBA

**INDEPENDENT
PROJECTS**

Burn and Turn

2008 - 2011

Cross-platform arcade style video game featured on [Kotaku](#) and [IndieGames](#). It was coded in C++ and used OpenGL as a backend for graphics. It was created by a team of three people over a course of four years and released on iOS and Android markets.

Self Balancing Robot

Summer 2012

A vertical self-balancing robot ran by an arduino controller coded in C++. A numerical simulation was used to determine weight distribution. Robot's position is determined by data from an accelerometer and a gyroscope combined through a Kalman filter. Balancing is done with a DC motor using PID controller.

UCLA Graduate Student Wiki

Summer 2014

Official wiki for graduate math department at UCLA that maintains a database of qualifying exam problems. It is made on top of Semantic Media Wiki using custom extension written in PHP that allows to users to search, filter, and tag the solutions.

Decentralized Networking Online Game

Fall 2014 - Present