Anton Bobkov

CONTACT Information Graduate Student

Department of Mathematics

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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

- \bullet 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 Cryptography REU at Northern Kentucky University

Summer 2009

RESEARCH

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

C++, C#, bash, Java, php, MAGMA Languages

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 through a DC motor using PID controller.

UCLA Graduate Student Wiki

Summer 2014

Decentralized Networking Online Game

Fall 2014 - Present