

Résumé

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http://www.math.purdue.edu/people/bio/salinac

اجرام که ساکنان این ایوانند اسباب تردد خردمندانند هان تاسر رشته خرد گم نکنی کانان که مدبرند سرگردانند عمر خیام

I am broadly interested in mathematics, but specifically interested in geometry (the algebraic computational kind). The fields I am hoping to explore next are algebraic topology and homotopy theory. I am highly interested in theoretical physics.

Education

2014-present **Ph.D. in Mathematics**, *Purdue University*, West Lafayette, IN, USA. Currently a graduate student working towards my Ph.D.

2012-2014 **B.S. in Mathematics**, *University of Texas-Pan American*, Edinburg, TX, USA. I graduated on May 2014 with a Bachelor of Science in Mathematics with a concentration in Pure Mathematics.

2009-2011 **B.S. in Materials Science**, Massachusetts Institute of Technology, Cambridge, MA, USA.

Spent four semesters studying towards a degree in materials science. Withdrew from the program for personal and medical reasons.

Experience

Working

2010-2010 **Research Assistant**, Center for Materials Science and Engineering, Cambridge, MA, USA.

I worked with Dr. Samuel Allen on the crystallography and grain structure of Ti–Ta shape-memory alloys using an electron microscope.

2013-2014 Lab Manager, University of Texas-Pan American, Edinbug, TX, USA.

I supervise UTPA's branch of the *Experimental Algebra and Geometry Lab*. My duties include: updating hardware and software on the lab's machines; the lab's 3D printer; announcing and running the *Secret Student Seminar*.

Academic

2013-2013 **Summer Research Opportunity Program Student**, Northwestern University, Evanson, IL, USA.

I worked on a directed reading on Applications of the Lefschetz Fixed-Point Theorem under the supervision of Dr. Paul Goerss.

2013-2014 Undergraduate Researcher, University of Texas-Pan American, Edinbug, TX, USA. I am studying the topology of $SL_n(\mathbb{C})$ -character varieties and problems related to the character of words represented in $SL_n(\mathbb{C})$ in collaboration with Dr. Sean Lawton.

Conferences & Workshops

Nov. 1, Field of Dreams Conference, Phoenix, AZ, USA.

2013-Nov. 3 I attended the Seventh Annual Mathematical Field of Dreams Conference, held at the Phoenix

2013 East/Mesa Hilton Hotel in Mesa, Arizona.

Dec. 16, Character Varieties and Geometric Structures Workshop, Washington, D.C.,

2013-Dec. 20 USA.

2013 I attended the Character Varieties and Geometric Structures Workshop held at Washington, D.C. and prepared a 30 min. lecture on characters of free groups represented in $SL_2(\mathbb{C})$ and presented some of my current research.

Computer Skills

Platforms Linux, Windows

ProgrammingC/C++, Haskell, IATEX, Mathe-Languages matica, MATLAB/Octave, Python, Racket/Scheme, Sage

Tools All *NIX shell tools, Emacs, Inkscape, Gimp, Git, LibreOffice, MakerWare

Languages

English Native Español Native

Pyccкий Advanced فارسى Intermediate

Deutsch Pre-intermediate Français Pre-intermediate

Türkçe Pre-intermediate 한구고 Beginner

日本語 Beginner 中文 Beginner