Matthew Cadier Kim

Contact Information

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Mathematical Interests

Logic - Model Theory
Galois Theory
Frame theory and applications
Computational Number Theory
Categorical Data Analysis
Computational Learning Theory

Education

San Francisco State University

B.A. in Philosophy, May 2012

- Minor in Mathematics
- Math GPA: 3.63

Universtite de Paris 1

Exchange in dept. of Logic, 2010-2011

- History of Mathematics, Logic

Experience

Spring	2012	Tutor, Precalculus, Physics - Mission High School
Fall	2011	Tutor, Precalculus -Balboa High School

Coursework

- ❑ Logic A
- ❑ Calculus I B
- ❑ Calculus I A
- ❑ Calculus III A-
- ❑ Linear Algebra A
- ❑ Physics I (General Mechanics) B+
- ❑ Elementary Number Theory A-
- ❑ Probability and Statistics I B
- ❑ Introduction to Computer Programming (Computer Science) A
- ❑ Introduction to Real Analysis (In Progress)
- ❑ Modern Algebra (In Progress)
- ❑ Data Structures (Computer Science) (In Progress)
- ❑ Introduction to Wavelets and Applications (In Progress)
- ❑ Non-Parametric Statistics (Categorical Data Analysis) (In Progress)

Relevant Skills

Java
Latex Typesetting
Languages: English (Native), French (Fluent written and oral)

References

Serkan Hosten, Professor of Mathematics, San Francisco State University, serkan@sfsu.eu

Additional Information

I am a philosophy major, with an emphasis in the history and philosophy of mathematics. I had the opportunity to study at the University of Paris for two years, first at Paris VIII, then at Paris I, in their renowned department of logic. Over the past two semesters I've turned towards pure and applied mathematics, and though I'll only have a minor on my diploma, by the end of this semester I will have accrued 45 semester credits in Mathematics and Computer Science. I was drawn to Mathematics by a rediscovered passion, and hope to continue my mathematical education beyond the undergraduate level.
I have been accepted into the Master's program for next fall here at SFSU, where I plan on taking further courses in Algebra, Topology, Analysis of Algorithms and Statistics. Besides solidifying the foundations of my mathematical knowledge, I hope to narrow in on research interests with the aim of continuing onto PhD programs.

In general, what attracts me to mathematics is the intimate relationship between empirical research and theoretical constructions at the heart of mathematical discovery. While this mixture is present in all natural sciences, I feel that mathematics best allows us to address practical problems while also answering increasingly important epistemological questions about science. For me, Number Theory and its applications exemplifies this virtue in mathematics. I hope to gain from this summer school an invaluable research opportunity in an international setting, and to broaden my knowledge of number theoretical applications of algebra and computer science.