

## Bren Cavallo

Mathematics Department, CUNY Graduate Center  
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**EDUCATION** *Doctor of Philosophy, Mathematics*  
CUNY Graduate Center, New York, NY, expected June 2015  
Concentrations: Group Theory, Computational Complexity, Cryptography

*Bachelor of Arts, Mathematics and Italian*  
Vassar College, Poughkeepsie, NY, May 2011

**PATENTS** B. Cavallo, D. Kahrobaei, V. Shpilrain, *Decoy-based secure delegation of computation, with application to RSA encryption*, patent number: 3071140 US01 (2014)

**COMPUTER SKILLS** *Languages & Software:* Python (numpy, scipy, pandas, scikit-learn, IPython Notebook), Ruby on Rails, SQL, C++, LaTeX, Git.  
*Operating Systems:* Unix.

**EXPERIENCE** *Graduate Research Assistant* Fall 2012-  
Research Foundation of CUNY, New York, NY

- Collaborated on four papers. One is under review, and three are published, including one in a top computational algebra journal.
- Spoke at five conferences, including speaking two consecutive years at one of the top international group theory conferences.
- Co-organized a special session on group theory and cryptography at the 2015 Joint Mathematics Meetings, the largest mathematics meeting in the world.
- Collaborated on original cryptographic research that led to a patent.

*Adjunct Lecturer* Fall 2011-  
Mathematics Department, City College of New York  
New York, NY

- Functioned as the primary instructor for nine classes ranging from Arithmetic to Calculus II.
- Developed original lesson plans and course materials.

**ADDITIONAL INFORMATION**

- Conversational knowledge of Italian.
- Performs in the New York City area as a freelance jazz pianist.