Alexander Wood, Ph.D. Candidate in Computer Science

CONTACT Information Alexander Wood

The Graduate Center,

CUNY

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Ph.D. Program in Computer Science

The Graduate Center, CUNY 365 Fifth Avenue, Room 4319

New York, NY 10016

RESEARCH INTERESTS Fully homomorphic encryption, machine learning, computational medicine

WORK & EDUCATION

The Graduate Center, CUNY, New York, New York

- Ph.D Candidate in Computer Science
- 2015-Present
- Advisor Professor Delaram Kahrobaei

University of Michigan, Ann Arbor, Michigan

- Research Scientist at Biomedical and Clinical Informatics Lab (BCIL), MCIRCC, University of Michigan
- 2017-Present

The Graduate Center, CUNY, New York, New York

- Masters of Philosophy in Computer Science
- 2017

The Graduate Center, CUNY, New York, New York

- Graduate Mathematics Coursework
- Passed qualifying exams in abstract algebra and algebraic topology
- 2013-2015

DePaul University, Chicago, Illinois

- M.S. Pure Mathematics, with distinction
- Passed qualifying examinations in algebra and analysis
- 2012-2013, 2015

DePaul University, Chicago, Illinois

- B.A. Pure Mathematics, Summa Cum Laude
- 2008-2012

Programming

SKILLS

- Languages: C++, Python, Matlab
- Graphics & Typesetting: LaTeX, Beamer, TikZ, gnuplot, yEd
- Databases: PostgreSQL, SQLite
- Other: HTML/XML, GAP

Teaching

John Jay College of Criminal Justice, Adjunct Lecturer

2015-2017

• Cryptography and Cryptanalysis

2017

	• College Algebra 2	2016 2015 2015
	• Precalculus, Opportunity Program 2015-2	2016
	New York City College of Technology, Adjunct Lecturer • Computer Programming and Problem Solving with Python 2	016 2016
	DePaul University, Graduate Teaching Assistant • Real Analysis I & II, Group Theory 2012-20	013
Presentations	S Introduction to Blockchains, Invited Talk, QUILTBAG++ 20	017
	Generic-Case Complexity in Algorithmic Group Theory, Lecture, A rithmic Group Theory Graduate Course 20	lgo- 016
	The Generic Case Complexity of Group-Theoretic Problems, Candid Exam	lacy 016
	MixCoin: A Method For Anonymous Transactions In BitCoin, Dig Currencies course presentation 20	gital 016
	A Survey of Definitions of Generic-Case Complexity, GC Cryptogra Seminar 20	phy 016
	Weighted Threshold Secret Sharing, Cryptographic Protocols course paration 20	pre- 015
	Cramer-Shoup Encryption, GC Cryptography Seminar 20	015
	Shor's Algorithm for Factoring in Polynomial Time on a Quantum chine, GC Cryptography Seminar 20	Ma- 015
	Generic-Case Complexity, GC Cryptography Seminar 20	015
Papers	The Generic-Case Complexity of Group-Theoretic Problems • Survey for candidacy exam	016
	Behavior of Distance Metrics in High Dimensional Spaces • Machine Learning course project	015
	Quantization and Statistical Analysis of Data Using a Bayes Decision Rule • Machine Learning course project • Co-authored with Matteo Campanelli and Kelsey Horan	sion 015
	 Weighted Threshold Secret Sharing Cryptographic Protocols course project Co-authored with Nikolas Melissaris 	015

LEADERSHIP	 Doctoral Student Council, Computer Science Rep. Student Technology Fee Committee 	2016-2017 2016-2017
	Graduate Council, Computer Science Student Rep.	2016-2017
	Computer Science Students Association, Chairperson • Executive Committee, Curriculum Committee, and Elmitee	2016-2017 dections Com-2016-2017
	GC Crypto-Math Seminar, Co-Organizer	2016-2017
	Doctoral Student Council, Mathematics Representative	2015
	American Mathematical Society, Member 2010,	2013-2015
FELLOWSHIPS	CUNY Research Foundation Research Assistantship	2017
	CUNY Computer Science Fellowship	2016
	University Fellowship, Hunter College	2016
	CUNY Research Foundation Research Assistantship	2016
	CUNY Graduate Assistantship B, Computer Science	2015-2016
	CUNY Math Fellowship	2013-2015
	CUNY Graduate Assistantship B, Mathematics	2013-2015
	DePaul Graduate Mathematics Fellowship	2012-2013
OTHER WORK	Wohl Communication Services, Reader, Recorder, and Procuate Examinations (GRE, MCAT, & FINRA)	tor for Grad- 2013-2016
	The Graduate Center Information Technology, IT Aide	2013-2014
	DePaul Information Services, IS Student Assistant	2009-2011