

Noah Lebowitz-Lockard

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Employment

College of Coastal Georgia (2020)
Temporary Professor of Mathematics

Education

University of Georgia (2015 – 2019)
PhD in Mathematics
Advisor: Paul Pollack
Dissertation: *The Distribution of Some Special Arithmetic Functions*

Emory University (2013 – 2015)

Dartmouth College (2009 – 2013)
Bachelor of Arts
Cum Laude with High Honors in Mathematics
Major: Mathematics
Minor: Physics
Senior Thesis: *Generating Random Factored Gaussian Integers, Easily*
Advisor: Carl Pomerance

Research

1. (With Carl Pomerance) Generating random factored Gaussian integers, easily, *Mathematics of Computation*, 85:297 (2016), 503–516.
2. (With Paul Pollack) Clustering of linear combinations of multiplicative functions, *Journal of Number Theory*, 180 (2017), 660–672.
3. Additively unique sets of prime numbers, *International Journal of Number Theory*, 14:10 (2018), 2757–2765.
4. (With Pete L. Clark and Paul Pollack) A note on Golomb topologies, *Quaestiones Mathematicae*, 42:1 (2019), 73–86.
5. On domains with properties weaker than atomicity, *Communications in Algebra*, 47:5 (2019), 1862–1868.
6. The distribution function of a polynomial in additive functions, *The Ramanujan Journal*, 49:3 (2019), 491–504.
7. (With Paul Pollack) On ordered factorizations into distinct parts, *Proceedings of the American Mathematical Society*, 148:4 (2020), 1447–1453.
8. On the number of ordered factorizations of an integer, *Integers* 20 (2020), A20.

9. (With Matt Just) On factorizations into coprime parts, *International Journal of Number Theory*, 17:8 (2021), 1825–1850.
10. The distribution of numbers with many ordered factorizations, *Journal de Théorie des Nombres de Bordeaux*, 33:2 (2021), 583–606.
11. Asymptotic bounds for factorizations into distinct parts, *Acta Arithmetica*, 201 (2021), 371–389.
12. (With Paul Pollack and Akash Singha Roy) Distribution mod p of Euler's totient and the sum of proper divisors, accepted for publication by *Michigan Mathematical Journal*.
13. (With Matt Just) Palindromic sequences, accepted for publication by *American Mathematical Monthly*.

In Progress

14. Irreducible quadratic polynomials and Euler's function, current version: arXiv:1810.12990 [math.NT]. (All results originally appeared in my dissertation.)
15. On an equation related to cyclic numbers.

Refereeing

I have refereed papers for *Mathematics of Computation*, *International Journal of Number Theory*, and *Journal of Number Theory*.

Talks

Generating Random Factored Gaussian Integers, Easily (2013)

Brown University

Williams College

Subatomic Domains (2016)

Mock AMS Conference, University of Georgia

Irreducible Quadratic Polynomials and Euler's Function

INTEGERS Conference (2018)

Joint Math Meeting, Special Session in Analytic Number Theory (2019)

Factorizations Into Distinct Parts

Combinatorial and Additive Number Theory (2021)

<https://www.youtube.com/watch?v=pANgAnrZU1s>

Binary Egyptian Fractions

New York Number Theory Seminar (2021)

<https://www.youtube.com/watch?v=G6HRwO1w0Hs>

Teaching Experience

College of Coastal Georgia

Fall 2020.

Introduction to Mathematical Modeling

College algebra (Three sections)
Support for Mathematical Modeling
Support for College Algebra

University of Georgia (Instructor of record)

Fall 2016. Precalculus
Spring 2017. Calculus I
Fall 2017. Precalculus
Spring 2018. Precalculus (Two sections)

Emory University

Fall 2014. Life Sciences Calculus I (TA)

At Emory, I graded Precalculus and Calculus. At UGA, I graded Probability and Real Analysis.

Graduate Fellowship

RTG Fellowship for the 2018 – 2019 academic year

Undergraduate Awards and Honors

First Place in Thayer Prize Examination (2009)

This is a freshman math contest at Dartmouth.

Presidential Scholarship (2010)

Awarded to 25 to 30 Dartmouth sophomores to pursue research.

Job Experience

During the summer of 2012, I was an intern at the Director's Summer Program. This is a program that the NSA runs for undergraduates interested in mathematics and computer science research.

I was also a peer tutor for Math and Physics at Dartmouth from 2010 to 2013.

Programming Ability

Knowledge of Python