Roy Shmueli

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ABOUT ME

I am a final semester Ph.D. student in mathematics (algebra and probability), with experience as a software developer. Expected to graduate in October 2024.

I am a curious and highly analytical thinker with a passion for problem-solving.

Seeking to make a significant contribution as an algorithm developer.

EXPERIENCE

Math Researcher OCT 2019 - NOW
Tel Aviv University

- Independent and collaborative research in algebra and probability
- Published as a single author in a top journal ([link](#))
- Presented findings in public talks

Teacher Assistant OCT 2018 - NOW
Tel Aviv University

- Lectured in calculus and linear algebra courses

Senior Backend Developer DEC 2016 - DEC 2017
Codefresh Inc

- Developed a docker based CI/CD system with node.JS and MongoDB technologies

Software Developer NOV 2011 - NOV 2016
Israeli Air Force

- Develop information systems with Java, javascript, and Oracle technologies

PUBLICATIONS

- The probability that a p-adic random étale algebra is an unramified field, on arXiv ([link](#))
- On the number of roots of a random polynomial over the field of p-adic numbers, on arXiv ([link](#))
- The expected number of roots over the field of p-adic numbers, on IMRN ([link](#))

EDUCATION

Ph.D. Student In Math OCT 2020 - NOW
Tel Aviv University

- Scholarship of excellence
- Fields of study: random polynomials (branch of probability and algebra)
- Thesis Advisor: Prof. Lior Bary-Soroker

M.Sc. In Math OCT 2018 - OCT 2020
Tel Aviv University

- GPA: 96 (Summa Cum Laude)
- Excellent thesis award
- Fields of study: random polynomials (branch of probability and algebra)
- Thesis Advisor: Prof. Lior Bary-Soroker

B.Sc. In Math JULY 2008 - JULY 2011
Bar Ilan University

- GPA: 91
- Special program for excellent high school students in mathematics

SKILLS

- Mathematical Research
- Algebra
- Probability
- Programing (Python, node.js, Java)
- Self Learning

AWARDS

From Tel-Aviv University

- Scholarship of Excellence for Ph.d. students (2024)
- Excellence M.Sc. thesis award (2020)