

Roy Shmueli

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Email: royshmueli@tauex.tau.ac.il

Site: <https://www.tau.ac.il/~royshmueli/>

Research interests Number theory, random polynomials, p -adic nubmers.

Education **Tel-Aviv University** Tel-Aviv, Israel
Ph.D. in Mathematics October 2020 – Present
Supervisor: Professor Lior Bary-Soroker.

Tel-Aviv University Tel-Aviv, Israel
M.Sc. in Mathematics (Summa Cum Laude) October 2018 – October 2020
Title of Thesis: "The expected number of roots of random polynomials over the field of p -adic numbers"
Supervisors: Professors Lior Bary-Soroker, Eli Glasner.

Bar-Ilan University Ramat-Gan, Israel
B.Sc. in Mathematics August 2008 – August 2011

Publications **The expected number of roots over the field of p -adic numbers**
Roy Shmueli.
arXiv preprint [arXiv:2101.03561](https://arxiv.org/abs/2101.03561), 2021.

Talks **The expected number of roots of random polynomials over the field of p -adic numbers** November 2020
Tel-Aviv Algebra Seminar

Teaching experience **Teaching assistant, Department of Mathematics (Tel-Aviv University)**
Calculus 2B for electrical engineering Spring 2021
Linear algebra 1A Fall 2020
Calculus 2B Spring 2020
Calculus 1A Fall 2019
ODE for electrical engineering Spring 2019
Calculus 1A for physics Fall 2018

Meetings **Function Field Arithmetic Shaoul Fund IAS International Workshop**
Attendee February 2019

Industry experience **Codefresh Inc.**, Research and Development Ramat-Gan, Israel
Senior Software Developer December 2016 - December 2017

Israel Air Force, Technological Development Division Israel
Software Developer November 2011 - November 2016

Skills

Programming

Proficient in: Python, Java, JavaScript, SageMath.

Familiar with: C++, MATLAB.

Languages

Hebrew (native), English (fluent)