

Maria Siskaki

CONTACT INFORMATION

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RESEARCH INTERESTS

Ergodic Theory, Analytic Number Theory, Probability Theory

EDUCATION

Ph.D. in Mathematics Aug 2017 - present
University of Illinois at Urbana-Champaign, USA
Advisor: Professor [Florin Boca](#)

Master's Program in Theoretical Mathematics Oct 2016 - June 2017
National and Kapodistrian University of Athens, Greece
left after 1 year because of a Ph.D offer

Erasmus Exchange Program scholar Feb 2015 - July 2015
Universidad de Málaga, Spain
Thesis: The Baire Category Theorem and its Applications
Advisor: Professor [Daniel Girela-Álvarez](#)

B.Sc. in Mathematics Oct 2012 - June 2016
Aristotle University of Thessaloniki, Greece

PUBLICATIONS

- [1] F. P. Boca and M. Siskaki. A note on the pair correlation of Farey fractions. (submitted)
[arXiv:2109.12744](#)
- [2] M. Siskaki. Distribution of the reduced quadratic irrationals arising from the odd continued
fraction expansion. (submitted) [arXiv:2103.15962](#)
- [3] F. P. Boca and M. Siskaki. Distribution of periodic points of certain Gauss shifts with infinite
invariant measure. *Nonlinearity*, 34(7), 4570-4603, 2021, [arXiv:2008.00050](#)
- [4] M. Siskaki. Boundedness of derivatives and anti-derivatives of holomorphic functions as a
rare phenomenon. *Journal of Mathematical Analysis and Applications*, 462(2):1073 - 1086, 2018,
[arXiv:1611.05386](#)

AWARDS AND FELLOWSHIPS

- Teaching Assistant Instructional Award, Department of Mathematics,
University of Illinois Urbana-Champaign, Dec 2021
- Shaff/Andrews Fellowship, Jan 2022 – May 2022
- Mathematical Analysis Nikolaos Danikas Award, AUTH, June 2016
(best performance in compulsory Mathematical Analysis courses in my year)

TALKS

- The distribution of reduced quadratic irrationals arising from continued fraction expansions (Sept. 2021, One World Numeration Seminar)
- Distribution of quadratic irrationals that arise from Continued Fraction expansions (June 2021, Analysis Seminar of AUTH, Thessaloniki)
- Distribution of reduced quadratic irrationals arising from even and of backward Continued Fraction expansions (Oct. 2020, Number Theory Seminar)
- Continued Fractions and Ergodic theory (Oct. 2019, Graduate Analysis Seminar)
- Universal Taylor series (Oct. 2017, Graduate Analysis Seminar)

CONFERENCES

Seminars, Conferences, Summer Schools:

- Summer School: Ergodic Theory with Applications to Continued Fractions, UNCG May 18 - 22, 2020
- Wabash Modern Analysis Seminar Feb. 22, 2020
- Great Plains Operator Theory Symposium(GPOTS), TAMU Math May 28 - June 1, 2019
- Annual Miniconference at IUPUI Sept. 15 - 16, 2018
- New Developments in Complex Analysis and Function Theory, University of Crete, Greece July 2 - July 6, 2018

OTHER PROJECTS

- [Summer Illinois Math camp](#) - June 2021
Program coordinator for camp Epsilon, Instructor for camp Delta
Taught the course: The Continued Fraction Universe
- [Illinois Geometry Lab](#) - June 2019
Mentored the project: Numerical norm estimates for some classes of Harper type operators.

TEACHING EXPERIENCE

Teaching Assistant:

Fall 2017 - Calculus 1	Fall 2019 - Calculus 2 for Engineers
Spring 2018 - Calculus 1	Spring 2020 - Calculus 2
Fall 2018 - Calculus 3	Fall 2020 - Calculus 1 (online)
Spring 2019 - Calculus 3	Spring 2021 - Calculus 2 (online)
Fall 2021 - Calculus 1 (Merit section)	

LANGUAGES SPOKEN

Greek - native language
English - fluent
Spanish - intermediate