

MARIA SISKAKI

Department of Mathematics, 273 Altgeld Hall, 1409 W. Green St, Urbana, IL 61801 · 217-819-9720

siskaki2@illinois.edu · [website](#)

EDUCATION

PH.D. , UNIVERSITY OF ILLINOIS URBANA – CHAMPAIGN, USA Thesis Title: Properties of Gauss type shifts arising from continued fractions Advisor: Florin P. Boca	AUG 2017 – MAY 2023
M.S. , UNIVERSITY OF ILLINOIS URBANA – CHAMPAIGN, USA M.S. in Teaching of Mathematics	AUG 2017 – MAY 2023
ERASMUS SCHOLAR , UNIVERSIDAD DE MALAGA, SPAIN Thesis: The Baire Category Theorem and its Applications Advisor: Daniel Girela-Álvarez	FEB 2015 – JULY 2015
B.SC. , ARISTOTLE UNIVERSITY OF THESSALONIKI, GREECE	OCT 2012 – JUNE 2016

TEACHING EXPERIENCE AT UIUC

TEACHING ASSISTANT IN ACTIVE LEARNING DISCUSSION SESSIONS

*Ranked as excellent by student evaluations

- Calculus 1 – *Fall 2021, **MERIT PROGRAM**
 - Calculus 1 – Fall 2017, *Spring 2018, Fall 2020 (online)
 - Calculus 2 for Engineers – *Fall 2019
 - Calculus 2 – *Spring 2020, *Spring 2021 (online)
 - Calculus 3 – *Fall 2018, *Spring 2019
- The **MERIT** program focuses on retaining STEM students from underrepresented minorities or rural schools. Teaching assistants create the group work assignments for these sections.

MENTOR & INSTRUCTOR

- Summer Illinois Math camp – June 2021
Created and taught the 1-week online course “The Continued Fraction Universe” to rising 9th-12th graders.
- Illinois Geometry Lab – June 2019
Mentored the 4-week research project “Numerical norm estimates for some classes of Harper-type operators.”

PUBLICATIONS

- F. P. Boca and M. Siskaki. On the Gauss-Kuzmin-Lévy problem for the nearest integer continued fraction. (submitted) [arXiv:2209.07452](https://arxiv.org/abs/2209.07452)
- F. P. Boca and M. Siskaki. A note on the pair correlation of Farey fractions. *Acta Arithmetica*, 250(2), 121-135, 2022. [arXiv:2109.12744](https://arxiv.org/abs/2109.12744)
- M. Siskaki. Distribution of the reduced quadratic irrationals arising from the odd continued fraction expansion. *Indagationes Math.*, 33(6), 1189-1220, 2022. [arXiv:2103.15962](https://arxiv.org/abs/2103.15962)
- 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](https://arxiv.org/abs/2008.00050)
- 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](https://arxiv.org/abs/1611.05386)

AWARDS AND FELLOWSHIPS

- Dr. Lois M. Lackner Mathematics Fellowship, Jan 2023 – May 2023
- Ruth V. Shaff and Genevieve I. Andrews Fellowship, Jan 2022 – May 2022
- R. Ranga Rao Scholarship, May 2022
- **Teaching Assistant Instructional Award**, Department of Mathematics, University of Illinois Urbana – Champaign, 2021
- Math. Analysis “N. Danikas” Award, Aristotle University of Thessaloniki, June 2016

TALKS

- University of Athens, 2nd Congress of Greek Mathematicians, July 2022
- ICMS Edinburgh, Junior Ergodic Theory Meeting, March 2022
- One World Numeration Seminar (online), Sept 2021
- Aristotle University of Thessaloniki, Analysis Seminar, June 2021
- UIUC, Number Theory Seminar, Oct 2020
- UIUC, Graduate Analysis Seminar, Oct 2017, Oct 2019

SERVICE AT UIUC

- Chair, Teaching Assistant Teaching Awards Committee, 2022-2023
- Organizer for the Mathematics Department Teaching Assistant Training, Aug 2022
- Program Coordinator, Summer Illinois Math Camp, 2021 (online), 2022 (in person)

PROFESSIONAL DEVELOPMENT

- Graduate Teacher Certificate, Center for Innovation in Teaching and Learning, UIUC, May 2023
- Backward Course Design series of workshops, Center for Innovation in Teaching and Learning, UIUC, July 2022