

# Saeed Shaabanian

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## EDUCATION

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- PhD.** Pure Mathematics (funded by the University of St Andrews) 2023-Present  
[University of St Andrews](#), St Andrews, UK.  
Primary Supervisor: [Prof. Mike Todd](#)  
Secondary supervisor: [Dr. Natalia Jurga](#)
- M.Sc.** Pure Mathematics (funded by Iranian Government) 2017-2019  
[Tarbiat Modares University](#), Tehran, Iran.  
M.Sc. Thesis: “**Orbit Equivalence for Measure Preserving Actions**”  
Advisor: [Prof. Masoud Amini](#)  
**Ranked 2nd** among M.Sc. students in Pure Mathematical (Analysis) major  
GPA: **3.84 / 4.0**
- B.Sc.** Mathematics & Applications (funded by Iranian Government) 2012-2016  
[Shahid Bahonar University](#), Kerman, Iran.  
Among the top-ranked universities in Iran

## PUBLICATIONS

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- “Hitting time statistics for  $\Phi$ -mixing dynamical systems” Mar 2025  
Preprint in [arXive](#)
- “Poincare Recurrence” Sep 2021  
Paper Presentation of [The 52nd annual Iranian Mathematics conference](#),
- “An overview of Bernoulli action” Feb 2021  
Paper Presentation of [The 51nd annual Iranian Mathematics conference](#)

## TEACHING EXPERIENCE

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- University of St Andrews, St Andrews, UK  
Teaching Assistant (tutor), School of Mathematics and Statistics
  - Pure and Applied Mathematics, Dr. Stefania Lisai Jan 2025- Apr 2025
  - Mathematics, Dr. Finn Smith Jan 2025- Apr 2025
  - Mathematics, Dr. Andrew Wright Sep 2024- Dec 2024
  - Analysis, Prof. Johnathan Fraser Sep 2024- Dec 2024
  - Mathematics, Dr. Finn Smith Jan 2024- Apr 2024
  - Mathematics, Prof. Thomas Neukirch Oct 2023- Dec 2023

- Analysis, Prof Johnathan Fraser
- Math teacher in more than ten educational institutions
- Math teacher at [Abureyhan School](#)

Oct 2023- Dec 2023  
Mar 2020 - Dec 2021  
Sep 2015 - Jun 2016

## TALKS

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- [A natural connection between recurrence laws in  \$\phi\$ -mixing dynamical systems](#)  
British Mathematics Colloquium (BMC). University of Exeter, UK, Jun. 2025.
- [A natural connection between recurrence laws in  \$\phi\$ -mixing dynamical systems](#)  
Dynamics and Group Geometry Early Researchers Seminar (DAGGER). University of Warwick, UK, April. 2025.
- [A natural connection between recurrence laws in  \$\phi\$ -mixing dynamical systems](#)  
St Andrews Analysis Seminar. University of St Andrews, UK, Nov. 2024.
- [Orbit equivalence of ergodic group actions](#)  
St Andrews Analysis Seminar. University of St Andrews, UK, April. 2024.

## AWARDS

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- **£140 scholarship** to attend the Summer school and workshop titled “Beyond Uniform Hyperbolicity” at the International Centre of Theoretical Physics (ICTP), in Trieste (Italy), **funded by [St Leonard’s College, University of St Andrews](#)** 2025
- **Full tuition scholarship** for a Ph.D. in Mathematics at the [University of St Andrews](#), **funded by the School of Mathematics and Statistics.** 2023
- **Full tuition scholarship** for an M.Sc. in Mathematics at [Tarbiat Modares University](#), **funded by the Iranian government** 2017
- **Full tuition scholarship** for a B.Sc. in Mathematics at [Shahid Bahonar University](#), **funded by the Iranian government** 2012

## FIELDS OF INTERESTS

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- Dynamical systems & Ergodic theory
- Recurrence
- Hitting time statistics
- Symbolic dynamics
- Orbit equivalence for measure preserving actions
- Probability measure preserving equivalence relations

## SOFTWARE SKILLS

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Python    LaTeX

## ACTIVITIES

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- Participation in the [Workshop on statistical properties of chaotic dynamics in and out of equilibrium](#), Rényi Institute, Budapest 2024
- Participation in the **School on probabilistic aspects of hyperbolic dynamical systems**, Erdos Centre, Budapest 2024
- Participation in the 75th British Mathematical Colloquium, University of Manchester 2024
- Participation in the "Data Science Introductory Course with python" course, which was held under the supervision of "Department of Computer Engineering, Sharif University of Technology" 2023
- Executive Secretary of Social and International Camping "off Corona," Sharif University of Technology 2020
- Participation in the 7th International Conference on Operator Algebra, institute for research in fundamental sciences(IPM) 2019
- Secretary of the 7<sup>th</sup> National Festival of Cultural, Artistic and Social Club entitled "Royesh," Ministry of Science Research and Technology 2019
- Student member of the jury council to supervise the student clubs, Tarbiat Modares University 2019
- Participation in the international conference on dynamical systems at the international center for theoretical physics(ICTP) 2018
- Participation in the 6th International Conference on Operator Algebra, institute for research in fundamental sciences(IPM) 2018
- Writer at "Rasta" Cultural, Art and Social Magazine, Tarbiat Modares University 2018-2019
- Member of the Scientific Students Association of Faculty 2017-2019
- In charge of "Ghoghaye Sokot" Cultural, Art and Social Magazine, Shahid Bahonar University 2016-2017
- Writer at "Ghoghaye Sokot" Cultural, Art and Social Magazine & Shahid Bahonar University 2016-2017
- Secretary of the Coordination Council of the Extracurricular Student Clubs of Arts and Culture, Shahid Bahonar University & Tarbiat Modares University 2015-2019
- Elected Head member and speaker of the Extracurricular Student Visual Arts Club, Shahid Bahonar University & Tarbiat Modares University 2014-2019
- Holding nine different art exhibitions of calligraphy works 2007-2018
- Teaching Calligraphy in the Cultural and Artistic centers of Sharif, Tarbiat Modares and Shahid Bahonar Universities 2012-Present

## LANGUAGES

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Farsi: Native  
English: Upper-Intermediate (**IELTS: 6.5**)  
Arabic: Basic Knowledge

## REFERENCES

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Will be provided upon [Request](#)