

# Naufil Sakran

## Curriculum Vitae

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6823, St Charles Avenue  
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### Education

- 2021-Present **Ph.D. Mathematics**, Tulane University, New Orleans, LA, USA.  
2017–2021 **BSc (Hons) in Mathematics**, *Gold Medalist*, Government College University, Lahore, Pakistan.

### Publications

- Mahir Bilen Can; Naufil Sakran, "On Generalized Wilf Conjecture," (*Submitted 2022*)
- Rabia Arshad; Yasar Mahmood; Muhammad Aslam; Hina Khan; Nasrullah Khan; Naufil Sakran, "Cost Model of Variable Multiple Dependent State Sampling Plan with Rectifying Inspection," in *Communications in Statistics - Simulation and Computation*, DOI: 10.1080/03610918.2021.1905844

### Thesis

- **A Review of Equilibrium Point Problem and Its Applications.** *Bachelor's Thesis.* A brief discussion regarding Analytic and Non-Analytic proofs of the Brouwer's fixed point theorem and its applications in Non-Linear Analysis.

### Honors & Awards

#### Research Suppots & Travel Grants

- Tulane Graduate Studies Student Association Travel Funding, 2022.

#### Awards

- Shaikh Safdar Medal - Government College University, Pakistan, 2022.
- Gold Medal, Academic Role of Honors - Government College University, Pakistan, 2022.
- Winner, National Mathematical Olympiad - The Islamia University of Bahawalpur, Pakistan, July 2021.
- Winner, National Calculus Contest - Sukkur IBA University, Pakistan, April 2019.

### Seminars/Conferences (co)-organized

- 2023 **Southern Regional Algebra Conference 2023**, Tulane University.  
2018 **International Conference On Mathematics & its Applications**, GCU.

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## Conferences & Presentations

### Talks

- 9/2022 **Generalized Wilf Conjecture**, *Algebra & Combinatorics Seminar*, Tulane University.
- 9/2022 **Hilbert's 17<sup>th</sup> Problem**, *Graduate Colloquium*, Tulane University.
- 4/2022 **Ramanujan Congruences**, *Modular Forms Seminar*, Tulane University.
- 2/2022 **Real Root Counting**, *Graduate Colloquium*, Tulane University.
- 2021 **7 Millennium Prize Problems**, *Exploring Mathematics: Undergraduate lecture series*, Government College University.
- 2020 **Sunflower Floret's Pattern**, *Exploring Mathematics: Undergraduate lecture series*, Government College University.
- 2019 **Monte Carlo Simulation and Its Applications**, *Unpacking Mathematics: Undergraduate seminar series*, Government College University.
- 2018 **Affine Cipher**, *Unpacking Mathematics: Undergraduate seminar series*, Government College University.
- 2018 **Gregorian Calendar**, *Unpacking Mathematics: Undergraduate seminar series*, Government College University.

### Posters

- 2023 **Unipotent Wilf Conjecture**, *Combinatorial Algebra meets Algebraic Combinatorics*, University of Waterloo, CA.
- 2022 **Unipotent Wilf Conjecture**, *Texas Algebraic Geometry Symposium*, Texas A&M University.
- 2022 **Real Nash Geometry**, *Math For All*, Tulane University.

### Attend

- 2022 **50 years of Number Theory & Random Matrices**, *Institute for Advanced Study*.
- 2022 **Macaulay2 Conference**, *Cleveland State University*.
- 2022 **Southern Regional Algebra Conference**, *Georgia College*.
- 2022 **Combina Texas**, *Texas A&M University*.
- 2019 **International Symposium on Non-Linear Analysis**, *Government College University*.
- 2019 **One day International Workshop on Algebra & their Applications**, *Government College University*.
- 2018 **One day Workshop on Non-Linear Analysis and their Applications**, *Government College University*.

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## Teaching

- Fall 2022 **Academic Learning & Tutoring Center**, *Tulane University*.
- Fall 2022 **Teaching Assistant**, *Tulane University*, Stats for Scientist & Linear Algebra.

- Spring 2022 **Teaching Assistant**, *Tulane University*, Calculus 1.  
Fall 2021 **Teaching Assistant**, *Tulane University*, Calculus 1.  
2018-2021 **Home Tutor**, O/A Level Mathematics.

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## Activities

- 2022-Present **Vice President**, *American Mathematical Society (AMS)*, Tulane University.  
2021-2022 **Secretary**, *Society for Industrial and Applied Mathematics (SIAM)*, Tulane University.  
2020-2021 **Senior Vice-President**, *Chawala Mathematical Society, Government College University*.  
2019-2020 **Finance Secretary**, *Chawala Mathematical Society, Government College University*.  
2018-2019 **Publicist**, *Chawala Mathematical Society, Government College University*.

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## Skills

- *Matlab*
- *C++*
- *Python*

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## Languages

- **Urdu:** Native
- **English:** Proficient
- **Malay:** Fluent
- **Portuguese:** Intermediate

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## Hobbies

- *Collecting foreign currencies*
- *Travelling*
- *Music*
- *Sports*
- *Mountaineering*
- *Fishing*