

# NERANJAN MARASINGHE

Texas Tech University, Department of Mathematics and Statistics  
Math 106 B, Lubbock, TX, 79409  
Email: [nemarasi@ttu.edu](mailto:nemarasi@ttu.edu)

## EDUCATION

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<b>Texas Tech University</b> <i>PhD student in Mathematics (Advisor : Prof. Alexander Solynin)</i> GPA : 4.00/4.00	Lubbock, TX, USA Aug 2021 - May 2026
<b>University of Peradeniya</b> <i>BSc in Electrical and Electronics Engineering</i> GPA : 3.60/4.00	Peradeniya, Sri Lanka Nov 2014 - Jan 2019

## RESEARCH INTERESTS

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**Complex Analysis** : Potential Theory, Symmetrization, Geometric Function Theory, Complex Dynamics

## EXPERIENCE

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<b>Texas Tech University, Department of Mathematics and Statistics</b> <i>Graduate Part Time Instructor</i>	Lubbock, TX, USA Fall 2022-Fall 2023
<b>Texas Tech University, Department of Mathematics and Statistics</b> <i>Research Assistant</i>	Lubbock, TX, USA Summer 2022
<b>Texas Tech University, Department of Mathematics and Statistics</b> <i>Teaching Assistant</i>	Lubbock, TX, USA Fall 2021, Spring 2022
<b>University of Peradeniya, Department of Engineering Mathematics</b> <i>Teaching Assistant</i>	Peradeniya, Sri Lanka March 2019 - August 2021
<b>Huawei Technologies (Pvt.) Ltd.</b> <i>Trainee Electrical and Electronics Engineer</i>	Colombo, Sri Lanka Oct. 2017 - Jan. 2018
<b>Milco (Pvt.) Ltd.</b> <i>Trainee Electrical and Electronics Engineer</i>	Ambewela, Sri Lanka Oct. 2016 - Jan. 2017

## TEACHING

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### At Texas Tech University

- MATH 1321 Trigonometry(Fall 2022)  
<https://www.youtube.com/playlist?list=PLTZv4jL4go4RQc1WdhkGjOS6BeAEtdJPQ>
- MATH 1452 Calculus II (Spring 2023)  
<https://www.youtube.com/playlist?list=PLTZv4jL4go4Q75HmF68qLb7Aq0rOUj1J6>
- MATH 3350 Higher Mathematics for Scientists and Engineers (Summer 2023)  
<https://www.youtube.com/playlist?list=PLTZv4jL4go4S0VJdLFmOp4qdiPkFijq9N>
- MATH 1451 Calculus I (Fall 2023)  
[https://www.youtube.com/playlist?list=PLTZv4jL4go4SiR4zn\\_RIRFLHYoi8643H6](https://www.youtube.com/playlist?list=PLTZv4jL4go4SiR4zn_RIRFLHYoi8643H6)

### At University of Peradeniya

- GP 116 - Linear Algebra (2019 Semester 02, 2020 Semester 02)  
<https://www.youtube.com/watch?v=QRd-jd6j2rs&list=PLTZv4jL4go4QUKES6N30kgj0TXCjJuwut>
- GP 115 - Calculus I (2019 Semester 01, 2021 Semester 01)

- EM 505 - Complex Analysis (2021 Semester 02)
- EM 316 - Numerical Methods for Electrical and Electronics Engineers (2019)
- EM 215 - Numerical Methods (2020)

### YouTube Teaching

- Complex Analysis  
<https://www.youtube.com/playlist?list=PLTZv4jL4go4Ql6aZFDi1KxXj2LIRawbgt>

### UNDERGRADUATE PROJECTS

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- **Smart Surveillance System for Child and Elderly Care (Undergraduate Final Year Research Project)**  
Supervisors: Dr.S.A.H.A. Suraweera, Prof. M.P.B. Ekanayake, Prof. G.M.R.I. Godaliyadda
- **Wireless Sensor Based Automated Security System (This project was assigned in the third year of Undergraduate Studies)**

### CURRENT RESEARCH

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- During Fall 2022, I started to work on a problem introduced by G. Polya and G. Szego in their book "Isoperimetric Inequalities in Mathematical Physics" with my advisor. I have mentioned more details about my ongoing research in my [research statement](#).
- Starting from Spring 2023, I have been working on a problem related to the product of conformal radii of open sets having a fixed area.

### SCHOLARSHIPS, FELLOWSHIPS AND ACADEMIC AWARDS

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- Dr. Shelby Hildebrand Graduate Math Fellowship - Texas Tech University (2023-2024)

### SEMINAR TALKS

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- "Product of Conformal Radii of open sets having a fixed area" - Analysis Seminar, Texas Tech University, April 24, 2023.
- "Product of Conformal Radii of open sets having a fixed area" - Analysis Seminar, Texas Tech University, November 13, 2023.

### REFERENCES

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- Prof. Alexander Solynin  
*Department of Mathematics and Statistics, Texas Tech University, Texas, USA*  
*Office : MA 231*  
*Email: [alex.solynin@ttu.edu](mailto:alex.solynin@ttu.edu)*
- Dr. Rochana Meegaskumbura  
*Department of Engineering Mathematics, University of Peradeniya, Sri Lanka*  
*Email: [rochanam@pdn.ac.lk](mailto:rochanam@pdn.ac.lk)*