

Menuja Perera

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Education

PhD, Mathematics

INDIANA UNIVERSITY

- Advisor: Prof. Norman Levenberg
- Thesis Title: Pluripotential Theory Associated with Convex Bodies

Apr 2021
Bloomington, Indiana

MA, Mathematics

INDIANA UNIVERSITY

Aug 2020
Bloomington, Indiana

Certificate in Teaching in Higher Education (CTHE)

STAFF AND EDUCATIONAL DEVELOPMENT ASSOCIATION (SEDA)

Apr 2014
London, United Kingdom

Certificate in Teaching in Higher Education (CTHE)

STAFF DEVELOPMENT CENTER (SDC), UNIVERSITY OF COLOMBO

Jan 2014
Colombo, Sri Lanka

BSc (Honors), Mathematics (First Class) - English medium

UNIVERSITY OF COLOMBO

Oct 2010
Colombo, Sri Lanka

Work Experience

Instructor

DEPARTMENT OF MATHEMATICS, VIRGINIA TECH

- Teaching: Math 1225 - Calculus of a Single Variable (Online Synchronous) (Fa 20/Sp 21), Math 1225 - Calculus of a Single Variable (Face-to-Face) (Fa 21, Fa 22, Sp 23), Math 1226 - Calculus of a Single Variable (Face-to-Face) (Sp 22/Fa 22/Fa 23/Fa 24, Sp 25)

Aug 2020 - Present
Blacksburg, Virginia

Associate Instructor

DEPARTMENT OF MATHEMATICS, INDIANA UNIVERSITY

- Teaching: M025-Pre-Calculus Mathematics (Sp 20)
- Mentoring: Directed Reading Program-Introduction to Real Analysis (Fa 19)
- Conducting Recitation: M211-Calculus I (Fa 16, 18), M212-Calculus II (Fa 17)
- Grading: M415-Complex Variables (Sp 17, 19 / Su 18), M312-Calculus 4 (Sp 18), S343-Honors Course in Differential Equations (Fa 19)
- Assisting: M119-Brief Survey of Calculus 1 (Fa 14, 15 / Sp 16/ Su 17), M120-Brief Survey of Calculus 2 (Sp 16), M118-Finite Mathematics (Fa 15), V118-Finite Mathematics with Applications (Fa 19)
- Math Learning Center Tutoring: M211-Calculus I (Fa 16, 18), M212-Calculus II (Fa 17), M119-Brief Survey of Calculus 1 (Fa 14, 15 / Sp 16/ Su 17), M118-Finite Mathematics (Fa 15)

Aug 2014 - Jul 2020
Bloomington, Indiana

Mathematics Tutor

FREELANCE

- Tutoring: Undergraduate Mathematics (Brief Survey of Calculus 1, Calculus I/II), AP Calculus AB and BC, High School Mathematics (Calculus, Algebra), Middle School Mathematics (Calculus, Algebra, Geometry), Elementary School Mathematics, GMAT Quantitative Section

Aug 2017 - Jul 2020
Bloomington, Indiana

Probationary Lecturer

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF COLOMBO

- Teaching (English medium): FM3003-Calculus III (Sp 13), PM3003-Algebra (Sp 12), AM2002-Numerical Analysis I (Fa 12, 13), AM1006-Geometry with Applications (Sp 14)
- Conducting Recitation (English medium): PM3056-Real Analysis I (Sp 14)

Mar 2012 - Nov 2019 (on leave Fa 14 - Fa 19)

Colombo, Sri Lanka

Assistant Lecturer

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF COLOMBO

- Teaching (English medium): PM3003-Algebra (Sp 12), AM1008-Mathematics for Biological Science (Fa 11)
- Conducting Recitation (English medium): PM2001-Calculus II (Sp 11), AM1006-Geometry with Applications (Sp 11)

Feb 2011 - Feb 2012
Colombo, Sri Lanka

Temporary Instructor

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF COLOMBO

- Conducting Recitation (English medium): PM1001-Calculus I (Fa 10), PM2001-Calculus II (Sp 11), AM1002-Vectors (Fa 10), AM1005-Graph Theory (Fa 10), AM1006-Geometry with Applications (Sp 11)

Sep 2010 - Jan 2011
Colombo, Sri Lanka

Publications

- M. **Perera**. Further Regularity Results in P -Extremal Setting. *The Journal of Analysis*, 32, 3297-3305 2024
<https://doi.org/10.1007/s41478-024-00794-5>
- M. **Perera**. Pluripotential Theory Associated with General Bodies. *Annales Polonici Mathematici*, 130(1), 85-96. 2023
<https://doi.org/10.4064/ap220608-4-1>
- M. **Perera**. A Transformation Rule Associated With P -Extremal Functions and Holomorphic Mappings. *The Journal of Analysis*, 31, 2097-2113. 2023
<https://doi.org/10.1007/s41478-023-00553-y>
- T. Bayraktar, S. Hussung, N. Levenberg and M. **Perera**. Pluripotential Theory and Convex Bodies: A Siciak-Zaharjuta Theorem. *Computational Methods and Function Theory*, 20(3), 571-590. 2020
[arXiv:1911.03756](https://arxiv.org/abs/1911.03756)
- N. Levenberg and M. **Perera**. A Global Domination Principle for P -Pluripotential Theory. *Complex Analysis and Spectral Theory, Contemporary Mathematics*, 743, 11-20. 2020
[arXiv:1806.06426](https://arxiv.org/abs/1806.06426)

Conferences and Workshops

Midwestern Workshop on Asymptotic Analysis

PURDUE UNIVERSITY

- Poster presentation on "Transformation Rule Associated with P -Extremal Functions and Holomorphic Mappings"

Oct 2019
Fort Wayne, Indiana

Graduate Students Mini Symposium – DAAD Partnership workshop

INSTITUT TEKNOLOGI BANDUNG

- Talk on "Valuation of Street Trees in Colombo, Sri Lanka"

Apr 2013
Bandung, Indonesia

International Forum for Mathematical Modeling

UNIVERSITY OF COLOMBO

- Member of the Organizing Committee

Mar 2014
Colombo, Sri Lanka

Joint Mathematics Meetings (JMM)

COLORADO CONVENTION CENTER

- Attended

Jan 2020
Denver, Colorado

Midwestern Workshop on Asymptotic Analysis

INDIANA UNIVERSITY

- Attended

Oct 2018
Bloomington, Indiana

Midwestern Workshop on Asymptotic Analysis

INDIANA UNIVERSITY - PURDUE UNIVERSITY INDIANAPOLIS

- Attended

Oct 2017
Indianapolis, Indiana

Awards and Scholarships

IUB Provost's Travel Award for Women in Science

INDIANA UNIVERSITY

- Offered to attend the JMM 2020 in Denver, Colorado

Nov 2019
Bloomington, Indiana

Grad Student Travel Grant

AMERICAN MATHEMATICAL SOCIETY (AMS)

- Offered to attend the JMM 2020 in Denver, Colorado

Nov 2019
Providence, Rhode Island

Hazel King Thompson Summer Reading Fellowship

INDIANA UNIVERSITY

- Offered to support graduate scholarships in the Mathematics department

May 2019

Bloomington, Indiana

Indiana University Graduate Fellowship

INDIANA UNIVERSITY

- Offered to support graduate scholarships

Jan 2015

Bloomington, Indiana

Dharmadasa Punchihewa Memorial Prize for Mathematics

UNIVERSITY OF COLOMBO

- Awarded for the best performance in Mathematics

Oct 2010

Colombo, Sri Lanka

Mr. and Mrs. D. P. Epasinghe Memorial Gold Medal for Mathematics

UNIVERSITY OF COLOMBO

- Awarded to the student who has shown the highest competence in Mathematics and having a First Class

Oct 2010

Colombo, Sri Lanka

The Gulamhusein A. J. Noorbai Gold Medal

UNIVERSITY OF COLOMBO

- Awarded to the student who has shown the highest competence in Mathematics

Oct 2010

Colombo, Sri Lanka

Joseph Nalliah Arumugam Memorial Award

UNIVERSITY OF COLOMBO

- Awarded to the student who has shown the highest competence in Final Examination in Science

Oct 2010

Colombo, Sri Lanka

The Studentship for the First Year Examination in Science

UNIVERSITY OF COLOMBO

- Offered for the best performance in First Year Examination in Science

Aug 2007

Colombo, Sri Lanka

Memberships

American Mathematical Society (AMS)

MEMBER

Apr 2015 - Present

Providence, Rhode Island

Outreach and Service

Math 1225 Course Coordinator

DEPARTMENT OF MATHEMATICS, VIRGINIA TECH

Aug 2024 - Present

Blacksburg, Virginia

Transfer Evaluator

DEPARTMENT OF MATHEMATICS, VIRGINIA TECH

Aug 2023 - Present

Blacksburg, Virginia

Member, Sri Lankan Student Association

VIRGINIA TECH

Aug 2022 - Present

Blacksburg, Virginia

Common Time Exam Room Scheduler

DEPARTMENT OF MATHEMATICS, VIRGINIA TECH

Jan 2022 - Present

Blacksburg, Virginia

Volunteer, IU Science Fest

INDIANA UNIVERSITY

Oct 2015

Bloomington, Indiana

Treasurer, Sri Lanka Olympiad Mathematics Foundation

UNIVERSITY OF COLOMBO

July 2013 - July 2014

Colombo, Sri Lanka

Member, Junior Faculty Monitoring Committee

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF COLOMBO

May 2013 - July 2014

Colombo, Sri Lanka

Secretary, Departmental Meetings

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF COLOMBO

Jan 2013 - July 2014

Colombo, Sri Lanka

Course Coordinator, Undergraduate Mathematics Courses

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF COLOMBO

Jan 2012 - July 2014

Colombo, Sri Lanka

Member, Committee of Annual Board of Survey

UNIVERSITY OF COLOMBO

Dec 2012

Colombo, Sri Lanka

Organizer, 'MathQuiz - 2011'- Inter School Competition of Mathematics

SRI LANKA ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE (SLAAS) AND DEPARTMENT OF MATHEMATICS, UNIVERSITY OF COLOMBO

Apr 2011

Colombo, Sri Lanka

Organizer, 'Star Quest - 2009'- All Island Inter School Astronomy Quiz Competition

MATHEMATICAL AND ASTRONOMICAL SOCIETY, UNIVERSITY OF COLOMBO

May 2009

Colombo, Sri Lanka

Organizer, All Island School Inventors' Competition

SRI LANKA ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE (SLAAS) AND THE MINISTRY OF EDUCATION

Dec 2008

Colombo, Sri Lanka