

Department of Mathematics, Virginia Tech, 460 McBryde Hall, 225 Stanger Street, Blacksburg, VA, 24061-1026

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Education

PhD, Mathematics Apr 2021

INDIANA UNIVERSITY

Bloomington, Indiana

· Advisor: Prof. Norman Levenberg

Thesis Title: Pluripotential Theory Associated with Convex Bodies

MA, Mathematics Aug 2020

Indiana University

Bloomington, Indiana

Certificate in Teaching in Higher Education (CTHE)

STAFF AND EDUCATIONAL DEVELOPMENT ASSOCIATION (SEDA)

London, United Kingdom

Certificate in Teaching in Higher Education (CTHE)

STAFF DEVELOPMENT CENTER (SDC), UNIVERSITY OF COLOMBO

Colombo, Sri Lanka

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

University of Colombo, Sri Lanka

Work Experience _

Instructor Aug 2020 - Present

DEPARTMENT OF MATHEMATICS, VIRGINIA TECH

Blacksburg, Virginia

Bloominaton, Indiana

Apr 2014

Jan 2014

Oct 2010

• 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 23/Fa 24)

Associate Instructor Aug 2014 - Jul 2020

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 I (Fa 14, 15 / Sp 16/ Su 17), M118-Finite Mathematics (Fa 15)

Mathematics Tutor Aug 2017 - Jul 2020

FREELANCE

Bloomington, Indiana

• 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

Probationary Lecturer

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

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF COLOMBO

Colombo, Sri Lanka

- 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)

Assistant Lecturer Feb 2011 - Feb 2012

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF COLOMBO

Colombo, Sri Lanka

- 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)

Temporary Instructor

Department of Mathematics, University of Colombo

Sep 2010 - Jan 2011 Colombo, Sri Lanka

• 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)

Menuja Perera · CV

Publications

M. **Perera**. Further Regularity Results in P-Extremal Setting. *The Journal of Analysis*

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

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

Conferences and Workshops

Midwestern Workshop on Asymptotic Analysis

Oct 2019

Purdue University

Fort Wayne, Indiana

 $\bullet \ \ \text{Poster presentation on "Transformation Rule Associated with } P-\text{Extremal Functions and Holomorphic Mappings"}$

Graduate Students Mini Symposium - DAAD Partnership workshop

Apr 2013

Institut Teknologi Bandung

Bandung, Indonesia

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

International Forum for Mathematical Modeling

Mar 2014 Colombo, Sri Lanka

UNIVERSITY OF COLOMBO

• Member of the Organizing Committee

Joint Mathematics Meetings (JMM)

Jan 2020

COLORADO CONVENTION CENTER

Denver, Colorado

Attended

Oct 2018

Midwestern Workshop on Asymptotic Analysis

Bloomington, Indiana

Indiana University

• Attended

Midwestern Workshop on Asymptotic Analysis

Oct 2017

Indiana University - Purdue University Indianapolis

Indianapolis, Indiana

Attended

Awards and Scholarships

IUB Provost's Travel Award for Women in Science

Nov 2019

Indiana University

Bloomington, Indiana

• Offered to attend the JMM 2020 in Denver, Colorado

Grad Student Travel Grant

Nov 2019

AMERICAN MATHEMATICAL SOCIETY (AMS)

Providence, Rhode Island

• Offered to attend the JMM 2020 in Denver, Colorado

Hazel King Thompson Summer Reading Fellowship May 2019 Indiana University Bloomington, Indiana • Offered to support graduate scholarships in the Mathematics department **Indiana University Graduate Fellowship** Jan 2015 Indiana University Bloomington, Indiana • Offered to support graduate scholarships **Dharmadasa Punchihewa Memorial Prize for Mathematics** Oct 2010 University of Colombo Colombo, Sri Lanka • Awarded for the best performance in Mathematics Mr. and Mrs. D. P. Epasinghe Memorial Gold Medal for Mathematics Oct 2010 University of Colombo Colombo, Sri Lanka · Awarded to the student who has shown the highest competence in Mathematics and having a First Class The Gulamhusein A. J. Noorbai Gold Medal Oct 2010 University of Colombo Colombo, Sri Lanka • Awarded to the student who has shown the highest competence in Mathematics Joseph Nalliah Arumugam Memorial Award Oct 2010 University of Colombo Colombo, Sri Lanka • Awarded to the student who has shown the highest competence in Final Examination in Science The Studentship for the First Year Examination in Science Aug 2007 University of Colombo Colombo, Sri Lanka • Offered for the best performance in First Year Examination in Science **Memberships**_ **American Mathematical Society (AMS)** Apr 2015 - Present MEMBER Providence, Rhode Island **Outreach and Service** Math 1225 Course Coordinator Aug 2024 - Present DEPARTMENT OF MATHEMATICS, VIRGINIA TECH Blacksburg, Virginia **Transfer Evaluator** Aug 2023 - Present DEPARTMENT OF MATHEMATICS, VIRGINIA TECH Blacksburg, Virginia Member, Sri Lankan Student Association Aug 2022 - Present VIRGINIA TECH Blacksburg, Virginia Common Time Exam Room Scheduler Jan 2022 - Present DEPARTMENT OF MATHEMATICS, VIRGINIA TECH Blacksburg, Virginia **Volunteer, IU Science Fest** Oct 2015 Indiana University Bloomington, Indiana Treasurer, Sri Lanka Olympiad Mathematics Foundation July 2013 - July 2014 University of Colombo Colombo, Sri Lanka

May 2013 - July 2014

Colombo, Sri Lanka

Jan 2013 - July 2014

Colombo, Sri Lanka

Menuja Perera · CV

Member, Junior Faculty Monitoring Committee

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF COLOMBO

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF COLOMBO

Secretary, Departmental Meetings

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

Colombo, Sri Lanka

Apr 2011

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