

Uma Indeewari Meththananda

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PERSONAL PROFILE

Full Name : Rathgama Guruge Uma Indeewari Meththananda
Date of Birth : 18th October 1988
Gender : Female

EDUCATIONAL QUALIFICATIONS

University of Sri Jayewardenepura Gangodawila, Sri Lanka

Postgraduate Degree (2017)

- Reading for MPhil in Mathematics
- Research Title: Analyzing the applicability of different forms of integrals in integral equation modeling of infectious disease transmission

University of Colombo School of Computing, Colombo, Sri Lanka

Bachelor of Information Technology - External Degree (2016)

- General Pass with GPA: 2.92
- Final Year Research Project: "Implementation of Local Game 'Nerenchi' As a Network Based Computer Game"
(Here I developed a Mathematical model based on Matrix arithmetic.)

University of Sri Jayewardenepura Gangodawila, Sri Lanka

Bachelor of Science (2012)

- Bachelor of Science Special Degree in Mathematics
- First Class with overall GPA: 3.5/4.5
- Final Year Research Project: "Fractals and Its Applications "
(Here I developed a Software to generate fractal landscapes, compose fractal music using complex mathematical algorithms.)
- Studied Computer Science and Physics up to end of 2nd year as Minor subjects
 - Computer Science (GPA 3.3/4.5)
 - Physics (GPA 3.5/4.5)

G / Dharmasoka College, Ambalangoda.

G.C.E. Advanced Level Examination (2008)

- Chemistry (A), Mathematics (B), Physics (B), General English (B), IQ(72)
Z-Score (1.8325)

G.C.E. Ordinary Level Examination (2004)

- 9 A's Including Mathematics and English

PROFESSIONAL QUALIFICATIONS

- Certificate in Teaching in Higher Education Programme (2018) - General Sir John Kotelawala Defence University.

RESEARCH INTEREST

Applications, development and innovation related to the fields of Computational Mathematics and Mathematical modeling

PUBLICATIONS

Journal Papers

- **Meththananda RGUI.**, Ganegoda NC., Perera SSN., Harmonic Analysis via Integral Equation: An Application to Dengue Transmission. *Journal of Applied Mathematics*. Vol. 2020, 2020.
- **Meththananda RGUI.**, Ganegoda NC., Perera SSN., Modeling the Age-Dependent Infectiousness of Diseases: An Integral Equation Approach. *Mathematical Modelling and Applications*. Vol. 4, No. 1, 2019, pp. 10-14.

Conference

- Nadeesha, DMIM., **Meththananda RGUI.**, Vandebona R., " Auto generate Landmine Path : Digitize and Visualize the Data for the Sri Lankan Context", 13th International Research Conference - September 2020, General Sir John Kotelawala Defence University, Ratmalana-Sri Lanka.
- Karalliyadda, JMI., Dinusha, KA., **Meththananda RGUI.**, " Development of an Algorithm to Identify the Locations of Flood Victims using Digital Image Processing", 12th International Research Conference - September 2018, General Sir John Kotelawala Defence University, Ratmalana-Sri Lanka.
- **Meththananda RGUI.**, Ganegoda NC., Perera SSN., "Integral Equation Approach for modeling age dependent Infectiousness of Diseases", International Conference on Mathematical Modeling and Computations- December 2018, South Asian University, New Delhi, India.
- Jayathilaka, KAIM., Karalliyadda, JMI., Gunasinghe, GP., **Meththananda RGUI.**, " Sea Level Prediction Model for Colombo Coastal Area using MATLAB Software", 11th International Research Conference - September 2018, General Sir John Kotelawala Defence University, Ratmalana-Sri Lanka.
- **Meththananda RGUI.**, Ganegoda NC., Perera SSN., "Mathematical structures for integrals to enhance the applicability of integral equations in modeling disease transmission: A Preliminary Study", International Conference on Computational Modelling & Simulation- May 2017, University of Colombo, Sri Lanka.
- Samaraweera WJ., Waduge CP., **Meththananda RGUI.**, "Market Basket Analysis: A Profit Based Approach to Apriori Algorithm", 9th International Research Conference – September 2016, General Sir John Kotelawala Defence University, Ratmalana-Sri Lanka.
- **Meththananda RGUI.**, Hettige B. "Computational Model for Sri Lankan Board Game Nerenchi", 8th International Research Conference –August 2015, General Sir John Kotelawala Defence University, Ratmalana-Sri Lanka.

EXTRA CURRICULA ACTIVITIES

General Sir John Kotelawala Defence University – Southern Campus Sewanagala, Sri Lanka

- Faculty Website Administrator – Faculty of Built Environment and Spatial Sciences (2016 – up to date)
- Faculty Coordinator – International Research Conference (2018)

University of Sri Jayewardenepura Gangodawila, Sri Lanka

- Organizing committee member - Annual job fair and workshop 2013 organized by the Career Guidance Unit. (2013)
- Chief Organizer - Mathematics Society. (2011/12)

G / Dharmasoka College, Ambalangoda.

- Second Level Girl Guide. (1998/2004)
- Secretary - Inter House Sports Meet. (2006)
- Secretary - 'Damso Vidudarayange Thakshanika Sansadaya'. (2005/2006)
- Member in editorial board - 'Sathsara' magazine, the College magazine. (2004/2006)

WORK EXPERIENCE

General Sir John Kotelawala Defence University, Southern Campus.

- Probationary Lecturer (2015 May)
Currently working in the Department of Spatial Sciences.

Customized Information Systems Pvt. (Ltd), Thalawathugoda.

- Programmer (2014 Jan)
Employed as a Senior Programmer.

University of Sri Jayewardenepura, Gangodawila.

- Temporary Instructor (2013 March)
Employed as a Temporary Instructor in Mathematics

Hirdaramani Industries Pvt. (Ltd), Kahathuduwa.

- Internship (2011)
Worked for one month as a part of the industrial internship requirement for the BSc. Degree.

REFEREES

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| <ul style="list-style-type: none">• Dr. NC Ganegoda (Senior Lecturer)
Department Of Mathematics,
Faculty of Applied Sciences,
University of Sri Jayewardenepura,
Gangodawila, Nugegoda.
0714478687
naleencg@gmail.com | <ul style="list-style-type: none">• Dr. S.S.N. Perera (Senior Lecturer)
Department Of Mathematics,
Faculty of Science,
University of Colombo,
Colombo.
0715352616
ssnp@math.cmb.ac.lk |
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I hereby certify that above particulars given by me are true and accurate to the best of my knowledge.

Yours faithfully,

A handwritten signature in black ink, appearing to read 'R.G.U.I. Meththananda', written over a horizontal dotted line.

R.G.U.I. Meththananda