

KELVIN A. LAGOTA

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EDUCATIONAL BACKGROUND

2015-2019

Concordia University

Ph. D. Mathematics

Thesis: "*Green function and self-adjoint Laplacians on polyhedral surfaces*"

Supervisors: Alexey Kokotov, PhD and Victor Kalvin, PhD

2011-2015

University of the Philippines Diliman

Ph. D. Mathematics

Incomplete, transferred to Concordia University

2008-2011

University of the Philippines Diliman

M.S. Mathematics

Thesis: "*Symmetric Expressions M of order $2n$ with Essential Spectrum and Deficiency index $d(M)=n+3$* "

Supervisor: Marian P. Roque, PhD

2005-2008

University of the Philippines Diliman

B.S. Mathematics

RESEARCH PUBLICATIONS

- A. Kokotov, K. Lagota, Green function and self-adjoint Laplacians on polyhedral surfaces, *Canadian Journal of Mathematics*, doi: 10.4153/S0008414X1900033, (2019)
- M.P. Roque, G. Limson, K. Lagota, Non Limit-Point Symmetric Differential Expressions with Essential Spectrum, *Matimyas Matematika*, Vol. 30 Nos. 2-3 (2007), pp. 85-93

PRESENTATIONS IN CONFERENCES AND SYMPOSIA

- *Symmetric Expressions of the Form $My=(-1)^ny^{(2n)} + (cx^6y^{(4)})^{(4)} - (x^5y''')''' + (x^2y')'$* , (with MP Roque), *2012 MSP¹ Annual Convention*, De La Salle Lipa, Lipa City, Batangas, PHILIPPINES, May 2012
- *Symmetric Expressions M of order $2n$ with Essential Spectrum and Deficiency Index $n+3$* , (with MP Roque), *The 6th SEAMS-GMU² International Conference on Mathematics and Its Applications*, Universitas Gadjah Mada, Yogyakarta, INDONESIA, 12-15 July 2011
- *Symmetric Expressions of the Form $My=(-1)^ny^{(2n)} + (cx^2y')'$* , (with MP Roque), *2011 MSP Annual Convention*, University of Santo Tomas, Manila, PHILIPPINES, May 2011
- *Symmetric Expressions of order $2n$ with Essential Spectrum and Deficiency Index $n+3$* , (with MP Roque), *2009 MSP Annual Convention*, Limketkai, Cagayan De Oro, Misamis Oriental, PHILIPPINES, May 2009

¹ Mathematical Society of the Philippines

² Southeast Asian Mathematical Society – Gadjah Mada University

SEMINARS, WORKSHOPS, AND SCHOOLS ATTENDED

- 2016 CRM Summer School on Spectral theory and applications, Laval University, Quebec, Canada, 4 – 14 July 2016
- CIMPA-NIMS³ Research School on dynamical systems: Examples, billiards and the 3-body problems, Center for Applications of Mathematical Principle, Daejeon, South Korea, 25 May – 3 June 2015
- ⁴CIMPA-ICIAM-IMU-CDC-Philippines Research School 2014: Partial Differential Equations: Analysis, Numerics, and Applications to Flood and Tsunamis, Institute of Mathematics, University of the Philippines Diliman, 23 June – 4 July 2014
- SEAMS Manila School on the Applications of Algebra and Analysis, Institute of Mathematics UP Diliman, 4-15 April 2011

WORK EXPERIENCES

Mathematics Department, Dawson College Faculty (Continuing Education)

- Summer 2019
 - Linear Algebra (Social Science) 201-105-DW
 - Calculus 1 (Social Science) 201-103-DW
- Winter 2019
 - Calculus 2 (Science) 201-NYB-05
- Fall 2018
 - Calculus 1 (Social Sciences/Commerce) 201-103-DW
 - Remedial Activities for Secondary IV Math 201-016-50
- Winter 2018
 - Linear Algebra (Science) 201-NYC-05
 - Business Mathematics 201-801-DW

Department of Mathematics & Statistics, Concordia University Grad Student Instructor, Teaching Assistant

- Winter 2019
 - Class Tutor (Algebra and Functions, Differential and Integral Calc 1)
 - Tutor (Math Help Center)
 - Marker (Linear Algebra and Applications II)
- Fall 2018
 - Teaching Assistant (Fundamental Concepts of Algebra)
- Winter 2018
 - Class Tutor (Differential and Integral Calculus 1)
 - Tutor (Math Help Center)
 - Marker (Mathematical Modeling)
- Fall 2017
 - Lecturer (Differential and Integral Calculus 2)
- Winter 2017
 - Lecturer (Algebra and Functions)
- Fall 2016
 - Lecturer (Differential and Integral Calculus 2)
- Summer 2016
 - Class Tutor (Differential and Integral Calculus 2)

³ Centre International de Mathematiques Pures et Appliquees – National Institute for Mathematical Sciences

⁴ http://www.cimpa-icpam.org/IMG/pdf/manila%202014_mr.pdf

- *Winter 2016*
 - Lecturer (Differential and Integral Calculus 2)
- *Fall 2015*
 - Class Tutor (Differential and Integral Calculus 2)
 - Marker (Complex Analysis 1, Differential Equations)

Institute of Mathematics, University of the Philippines Diliman

Instructor

- Oct 2011 – July 2015 Instructor 7
- Nov 2008 – Oct 2011 Instructor 1
- Math 53 (Elementary Analysis 1) Coordinator, 2nd Semester AY 09-10**
- Co-Author/Co-Editor of Math 53 Module 1st Edition**

Courses taught:

- Trigonometry – 1x
- Algebra and Trigonometry – 5x
- Elementary Analysis 1 – 10x
- Elementary Analysis 2 – 6x
- Elementary Analysis 3 – 2x
- Precalculus – 3x
- Calculus 1 – 5x
- Calculus 2 – 3x
- Calculus 3 – 1x
- Differential Equations and Applications – 6x
- Undergraduate Research – 1x

College of Science, University of the Philippines Diliman

Coordinator, National Service Training Program (NSTP)

- June 2011 – July 2015

OTHER ACTIVITIES AND APPOINTMENTS

- Assistant Director, 14th Philippine Mathematical Olympiad
- Member, College of Science-NSTP Committee (2010-2015)
- Member, UPD-NSTP Executive Committee (2011-2015)
- Member of the local organizing committees of CIMPA School in Manila (2014) and SEAMS School in Manila (2011)
- Volunteer mentor at Diliman Learning Resource Center, UPD (2006-2008)