

KELVIN A. LAGOTA

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EDUCATIONAL BACKGROUND

- 2015-2019 Ph.D. Mathematics**
Concordia University
Thesis: "*Green function and self-adjoint Laplacians on polyhedral surfaces*"
Supervisors: Alexey Kokotov, PhD and Victor Kalvin, PhD
- 2011-2015 Ph.D. Mathematics** (Withdrawn, transferred to Concordia U)
University of the Philippines Diliman
- 2008-2011 M.S. Mathematics**
University of the Philippines Diliman
Thesis: "*Symmetric Expressions M of order $2n$ with Essential Spectrum and Deficiency index $d(M)=n+3$* "
Supervisor: Marian P. Roque, PhD
- 2005-2008 B.S. Mathematics**
University of the Philippines Diliman
Undergraduate Research: "On Approximation by Polynomials:
The Weierstrass Approximation Theorem"
Supervisor: Marian P. Roque, PhD

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)
- *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

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 $My = (-1)^n y^{(2n)} + (cx^6 y^{(4)})^{(4)} - (x^5 y''')''' + (x^2 y')'$* , (with MP Roque), *2012 MSP¹ Annual Convention*, De La Salle Lipa, Lipa City, Batangas, PHILIPPINES, May 2012

¹ Mathematical Society of the Philippines

- *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

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

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)

² Southeast Asian Mathematical Society – Gadjah Mada University

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