KELVIN A. LAGOTA

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SUMMARY

Professional Teaching Experience, post-secondary level: Since 2008
Research Experience: 2008 – 2020
Administrative Work Experience: 2011 – 2015

Current employment status
Trent University (Part-time Professor), since January 2024
Dawson College (Continuing Education faculty), since January 2018
H&R Block Canada (Tax Professional 1), since January 2025

Immigration Status
Permanent Resident in Canada
Filipino citizen

WORK HISTORY

January 2024 – present
H&R Block Canada – Tax Professional 1

January 2024 – present
Trent University - *Part-time Professor*
Courses taught: Math for Teachers: Statistics, Calculus 1, Calculus 2

January 2018 – present
Dawson College - *Part-time Faculty (Continuing Education)*
Courses taught: Linear Algebra, Calculus 1 (Science), Calculus 1 (Social Science), Calculus 2 (Science), Business Mathematics, Financial Calculations, Remedial Activities for Secondary IV Math, Remedial Activities for Secondary V Math, Applied Mathematics for Computer Science

April 2023 – June 2023
Fleming College – Frost Campus - *Part-time Professor*
Course taught: Applied Calculations for Heavy Equipment Operator

September 2015 – December 2019
Concordia University - *Grad Student Instructor, Tutor, Teaching Assistant*
Courses taught: Algebra and Functions, Differential and Integral Calculus 2

November 2008 – July 2015
University of the Philippines Diliman - *Instructor (Full-time)*
Courses taught: Algebra, Trigonometry, Precalculus, Calculus 1, Calculus 2, Calculus 3, Differential Equations and Applications

June 2011 – July 2015
   University of the Philippines Diliman
   Coordinator for National Service Training Program – College of Science

EDUCATION
September 2015 – December 2019
   Ph.D. Mathematics
   Concordia University
   Thesis: "*Green function and self-adjoint Laplacians on polyhedral surfaces*"
   Supervisors: Alexey Kokotov, PhD and Victor Kalvin, PhD

August 2011 – May 2015
   Ph.D. Mathematics (Withdrawn, transferred to Concordia U)
   University of the Philippines Diliman

November 2008 – May 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

June 2005 – October 2008
   B.S. Mathematics
   University of the Philippines Diliman
   Undergraduate Research: "On Approximation by Polynomials: The Weierstrass Approximation Theorem"
   Supervisor: Marian P. Roque, PhD

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)

RESEARCH PUBLICATIONS
- A. Kokotov, K. Lagota*,* Green function and self-adjoint Laplacians on polyhedral surface*s, Canadian Journal of Mathematics*, Vol. 72(5), (2020), pp. 1324-1351. doi: 10.4153/ S0008414X1900033
- K. Lagota, On the domain of the adjoint Laplacian on a compact Riemann surface with conical singularities, *Matimyas Matematika*, Vol. 43, No. 1, (2020), pp.1-18.
- M.P. Roque, G. Limson, K. Lagota*,* Non Limit-Point Symmetric Differential Expressions with Essential Spectru*m, Matimyas Matematika*, Vol. 30, Nos. 2-3 (2007), pp. 85-93.

PRESENTATIONS IN CONFERENCES AND SYMPOSIA

➢ *Self-adjoint Laplacians on a compact Riemann surface with conical singularities and their determinants*, 2021 MSP[1] *Annual Convention* (virtual), May 2021

➢ *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 MSP 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-GMU[2] International Conference on Mathematics and Its Applications,* Universitas Gadjah Mada, Yogyakarta, INDONESIA, 12-15 July 2011

➢ *Symmetric Expressions of the Form $My=(-1)^n y^{(2n)} + (cx^2 y')'$*, (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

➢ Focus Program Analytic Function Spaces and Their Applications, Fields Institute, Toronto, Canada, July – December 2021

➢ *2016 CRM Summer School on Spectral theory and applications*, Laval University, Quebec, Canada, 4 – 14 July 2016

➢ *CIMPA-NIMS[3] 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

➢ *[4]CIMPA-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

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[1] Mathematical Society of the Philippines
[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