
KELVIN A. LAGOTA, PHD

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Permanent Resident (Canada) | Filipino Citizen

PROFESSIONAL PROFILE

Versatile and committed post-secondary mathematics educator with over 15 years of experience in teaching, academic service, and mathematical research. Demonstrated excellence in teaching a wide range of undergraduate mathematics courses, including calculus, discrete mathematics, linear algebra, and business mathematics. Proven ability to support student learning across diverse disciplines and levels, and to contribute to curriculum development and academic service. Published research papers with contributions to spectral theory and differential equations.

TEACHING EXPERIENCE

- **Trent University** – Sessional Faculty Member
January 2024 – Present | Peterborough, ON

Courses: Math for Teachers: Statistics, Calculus I, Calculus II

- **Dawson College** – Part-time Faculty, Continuing Education
January 2018 – Present | Montreal, QC

Courses: Linear Algebra, Calculus I & II (Science and Social Science), Business Mathematics, Financial Calculations, Applied Math for Computer Science, Secondary IV & V Remedial Math, Probability and Statistics

- **Fleming College**, Frost Campus – Part-time Professor
April 2023 – June 2023 | Lindsay, ON

Courses: Applied Calculations for Heavy Equipment Operators

- **Concordia University** – Graduate Instructor / TA / Tutor
September 2015 – December 2019 | Montreal, QC

Courses: Algebra and Functions, Differential & Integral Calculus II

- **University of the Philippines Diliman** – Instructor I & 7
November 2008 – July 2015 | Quezon City, Philippines

Courses: Algebra, Trigonometry, Precalculus, Calculus I–III, Differential Equations & Applications, Undergraduate Thesis Advisor

EDUCATION

- **Ph.D. in Mathematics** – Concordia University, Montreal, QC
2015 – 2019

Thesis: *Green Function and Self-Adjoint Laplacians on Polyhedral Surfaces*

Supervisors: Alexey Kokotov, PhD, Victor Kalvin, PhD

- **M.S. in Mathematics** – University of the Philippines Diliman
2008 – 2011

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

Supervisor: Marian Roque, PhD

- **B.S. in Mathematics** – University of the Philippines Diliman
2005 – 2008

Undergraduate Research: *The Weierstrass Approximation Theorem*

Supervisor: Marian Roque, PhD

RESEARCH & PUBLICATIONS

- Kokotov, A. & Lagota, K. (2020). *Green Function and Self-Adjoint Laplacians on Polyhedral Surfaces*. Canadian Journal of Mathematics, 72(5), 1324–1351.
- Lagota, K. (2020). *On the Domain of the Adjoint Laplacian on a Compact Riemann Surface with Conical Singularities*. Matimyas Matematika, 43(1), 1–18.
- Roque, M.P., Limson, G., & Lagota, K. (2007). *Non Limit-Point Symmetric Differential Expressions with Essential Spectrum*. Matimyas Matematika, 30(2–3), 85–93.

CONTRIBUTIONS TO TEACHING & SERVICE

- Curriculum Development: Designed and taught over 15 different mathematics courses tailored to varied learner profiles
- Student Mentorship: Volunteer Mentor at UP Diliman Learning Resource Center
- Academic Committees: Member, UPD-NSTP Executive Committee (2011–2015)
- *Coordinator*, UPD College of Science – NSTP (2011–2015)
- *Organizer*, SEAMS and CIMPA Schools (2011, 2014)
- *Assistant Director*, Philippine Mathematical Olympiad (14th Ed.)

CONFERENCES & WORKSHOPS (SELECTED)

- Self-Adjoint Laplacians and Their Determinants, MSP Annual Convention (2021)
- Symmetric Differential Expressions & Spectral Properties, SEAMS-GMU Conference (2011)
- Fields Institute, Focus Program on Analytic Function Spaces (2021)
- CIMPA & SEAMS Schools, PDEs and Applications, Dynamical Systems, Algebra & Analysis (2011–2015)

OTHER EXPERIENCE

- H&R Block Canada – Tax Professional I
Jan – Apr 2025

Delivered financial services with a strong attention to detail and client communication.