

Abel Emanuel Romer

CONTACT INFORMATION

See LinkedIn E-mail: *N/A*
for contact Website: <https://www.abelromer.com>
information GitHub: <https://github.com/ahblay>

EDUCATION

University of Victoria, Victoria, British Columbia
M.Sc, concentration in Discrete Mathematics, Sep. 2020 – present
Advisors: Dr. Peter Dukes, Dr. Jonathan Noel
Thesis: *N/A*

Quest University Canada, Squamish, British Columbia
B.A.Sc, concentration in Mathematics, May 2017
Advisors: Dr. G. Van Brummelen
Thesis: *Winning Dots-and-Boxes in Two and Three Dimensions*
Cumulative GPA: 3.81 out of 4.0

St. Olaf College, Northfield, Minnesota, USA
Budapest Semesters in Mathematics, Fall 2015
Cumulative GPA: 3.87 out of 4.0

SCHOLARSHIPS AND AWARDS

UVic Graduate Award, University of Victoria	<i>Fall 2020 – present</i>
President's Honors Award, Quest University Canada	<i>Spring 2013, Fall 2014, Spring 2015</i>
President's Scholarship, Quest University Canada	<i>Sep. 2012 – May 2017</i>
Quest University Canada Scholarship, Quest University Canada	<i>Sep. 2012 – May 2017</i>

MATHEMATICAL WRITING

Dependent Random Choice
Review Paper
<https://www.abelromer.com/static/combo.pdf> (2021)

Supersaturation
Review Paper
<https://www.abelromer.com/static/extremal.pdf> (2021)

Partial Orders in Tournaments
Review Paper
<https://www.abelromer.com/static/gt1.pdf> (2020)

Stable Matchings
Review Paper
<https://www.abelromer.com/static/gt2.pdf> (2020)

Split Graphs
Review Paper
<https://www.abelromer.com/static/gt3.pdf> (2020)

List Colorings
Review Paper
<https://www.abelromer.com/static/gt4.pdf> (2020)

TEACHING EXPERIENCE	Teaching Assistant University of Victoria, Victoria, BC	<i>Sep. 2020 – present</i>
	<ul style="list-style-type: none"> ◦ <i>Reviewed and marked student work in mathematical logic, combinatorics and graph theory</i> 	
	Teaching Assistant Quest University Canada, Squamish, BC	<i>Sep. 2013 – May 2016</i>
	<ul style="list-style-type: none"> ◦ <i>Held review sessions for calculus 1, 2 and multivariable, differential equations, and spherical trigonometry</i> ◦ <i>Hosted 200+ hours of drop-in sessions, assisting students with both rhetorical and quantitative coursework</i> 	
	Grader The Art of Problem Solving, online	<i>Jan. 2018 – Dec. 2018</i>
	<ul style="list-style-type: none"> ◦ <i>Provided detailed written feedback for students in prealgebra, algebra, geometry and number theory courses</i> ◦ <i>Reviewed and corrected student submissions for mathematical accuracy, precision, style and clarity</i> 	
PROFESSIONAL EXPERIENCE	Freelance Web Developer Vancouver, BC	<i>Nov. 2017 – present</i>
	<ul style="list-style-type: none"> ◦ <i>Designed and implemented a web framework for a Python-based linear optimization solution to employee scheduling</i> ◦ <i>Implemented server side request handling with Python Flask and MongoDB, algorithmic optimization with PuLP, and client side interfacing in HTML, CSS, Javascript and JQuery</i> 	
TALKS	Keystone Symposium , Quest University Canada	<i>Apr. 2017</i>
	<ul style="list-style-type: none"> ◦ <i>The Theory of Dots-and-Boxes in Higher Dimensions</i> 	
VOLUNTEER EXPERIENCE	Journal Founder and Editor Momenta: Quest Academic Journal, Squamish, BC	<i>Sep. 2014 – May 2016</i>
	<ul style="list-style-type: none"> ◦ <i>Edited and laid the groundwork for the first edition of Quest’s student-run academic journal</i> ◦ <i>Attended organizational meetings and held workshops to guide peers through the review process</i> 	
	Assistant to Math Professor Sonoma State University, Rohnert Park, CA	<i>Jan. 2017 – Feb. 2017</i>
	<ul style="list-style-type: none"> ◦ <i>Assisted in the design and implementation of a Math Teacher Circle in Sonoma County, CA</i> ◦ <i>Wrote class plans on Pick’s Theorem, Archimedes’ Principle, and Tilings of the Plane designed to focus self-guided learning</i> 	
TECHNICAL SKILLS	Languages: Python, L ^A T _E X, Java, Javascript, HTML5, CSS Databases: MongoDB, SQLite, MySQL, Postgres Version Control/OS/Libraries/Other: Git, UNIX (macOS), Pandas, SciKit Learn, PuLP	
OTHER WORK EXPERIENCE	Landscaper, Symbiotic Landscapes	<i>Sep. 2019 – Apr. 2020</i>
	Bicycle Courier, The Breakfast Courier	<i>Sep. 2017 – Dec. 2017</i>
	Interpreter, Britannia Mine Museum	<i>June 2017 – Aug. 2017</i>