



2020 European Girls' Mathematical Olympiad
2020 EGMO – Math Team Canada
Leaders and Contestants
Fact Sheet



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Dorette Pronk – Leader

Dorette Pronk was born in Rotterdam, The Netherlands, and is a Professor of Mathematics at Dalhousie University, Halifax, Nova Scotia, where she has worked since September 2000. She obtained her Ph.D. in Mathematics in 1995 from Utrecht University in the Netherlands.



Dorette Pronk served as Deputy Leader Observer with the Canadian IMO Team to Taiwan (1998) and Romania (1999), as Deputy Leader with the Canadian IMO Team to the USA (2001) and Mexico (2005), and as leader with the Canadian IMO Team to Germany (2009) and to the Netherlands (2011), she served again as deputy leader to South Africa in 2014 and Leader to the Canadian EGMO teams in 2018 and 2019.

Professor Pronk was a recipient of an NSERC University Faculty Award (2000 – 2005) and her research interests are category theory and algebraic topology. She has supervised several honours, master's and doctoral students in mathematics and is pleased to see her students making a difference in both mathematical research and the teaching and community engagement of mathematics.

Dorette is the outreach advisor for the Math Division at Dalhousie University and works with the Director of Nova Scotia Math Circles, a program that seeks to show high school students the importance and beauty of mathematics. She also leads two math challenge clubs for students interested in problem solving and competitions. These clubs are financially sponsored by the Atlantic Association for Research in the Mathematical Sciences (AARMS). Students in the clubs form an active problem solving community who go to competitions together and especially enjoy team competitions. Without explicitly striving to achieve gender equity, the problem solving community has led to clubs that are just over 50% female and are culturally diverse.

Dorette also serves on the executive board of AARMS and is currently active in co-organizing (with Daniele Turchetti) a large STEM event for Girl Guides in May this year. They are expecting about 600 girls from around Nova Scotia to come to the university campuses in Halifax and engage in a weekend filled with STEM related workshops and opportunities to meet female role models in the STEM disciplines.

She also assists in training the Dalhousie team for the Science Atlantic Contest and the Putnam Competition. She enjoys taking students to conferences and competitions where they can meet others who share their passions.

Dorette's hobbies include playing the recorder, liturgical dance and choreography, and reading.

Diana Castañeda Santos – Deputy Leader

Waterloo, Ontario

Diana Castaneda Santos is a lecturer at the Centre for Education in Mathematics and Computing. She enjoys teaching math courses at the University of Waterloo as well as doing outreach in mathematics. She has visited a variety of schools in Canada, Trinidad and Tobago, and Colombia motivating high school students to learn and enjoy solving problems in mathematics.



Diana is originally from Colombia. She came to Canada in 2014, where she completed her PhD in Pure Mathematics at the University of Waterloo in the field of Arithmetic Geometry. She also completed the Certificate of University Teaching at the Centre for Teaching Excellence at Waterloo. Diana has taught a variety of Math courses, including first and second year calculus and algebra courses, and also a Pure Math course in group theory.

Diana enjoys sharing her love for mathematics through games and hands-on activities where students can discover the math by themselves.

Amelie Zhou — Contestant

Amelie Zhou was born in Beijing, China, and is currently a Grade 10 top student at Marc Garneau CI in Toronto, Ontario. She wrote her first math contest in Grade 2 and has been competing ever since. She enjoyed the challenges that competitive math presented which the curricular math did not offer, as it involved a side of math that was not taught in classrooms.



Amelie is both honoured and grateful for the opportunity to represent Canada in EGMO this year, and is excited to experience a new level of competitive math. She would like to thank her friends and teachers for their continued support and encouragement, but most of all her parents and grandparents, who taught her everything she needed to know to begin writing contests.

She supports EGMO's journey to bring more opportunities to girls who are passionate about math, and she hopes to be studying more advanced math and science in the future. In her spare time, she enjoys participating in sports and learning trivial information.

Anna Kronkhine – Contestant

Anna Krokhine was born in Toronto, Ontario, and is currently a Grade 11 student at the University of Toronto Schools (UTS).



Canada for
Canada



Anna first started participating in regional and national math competitions in elementary school, and quickly became more engaged in developing her problem solving skills through online and summer math programs. In addition to competitive math, Anna is very interested in academic and applied mathematics.

Anna is excited and honored to be a member of Team the 2019 EGMO. She is looking forward to representing together with the rest of the team in Kiev. Anna would like to thank her dedicated and enthusiastic UTS teachers, especially the Math Department, for their encouragement and support.

Anna is passionate about providing more opportunities and encouragement for girls and women to join the field of mathematics/ STEM. Her hobbies include hiking, watching classic movies, and reading.

Jennifer Wang — Contestant



Jennifer Wang was born in Toronto, Ontario, and is currently a Grade 11 student at the University of Toronto Schools (UTS). Jennifer has always loved problem solving, and she started participating in math competitions in elementary school.

Jennifer is honoured to be a member of Canada's EGMO Team, and she is excited to represent Canada in the Netherlands. She hopes that her involvement will encourage more girls to get involved in mathematics. She would like to thank her parents, teachers, and friends for all of their encouragement and support.

In addition to mathematics, Jennifer runs varsity cross-country and track. She competes in DECA, enjoys photography, and loves to play board games.

Elaine Liu – Contestant



Elaine Liu is a Grade 12 student at Appleby College in Oakville, Ontario. She first became interested in math in Grade 2 when she played “Make 24” with her parents. She started participating in math contests in Grade 9 and quickly fell in love with the challenges of problem-solving. She feels fulfilled completing difficult problems and feels rewarded at each “aha” moment. In addition to developing her own skills, Elaine works to engage in the communal aspect of mathematics. As the co-founder and president of the Appleby College Math Club, she shares her passion with her peers and promotes the math spirit in her community.

Having been on the EGMO team 2019, Elaine looks forward to representing Canada again this year in Egmond aan Zee. She is excited for the upcoming challenge and is hoping to meet math enthusiasts from all over the world. Elaine would like to thank her parents, teachers, and friends, who have always supported her pursuit of mathematics. She hopes that her participation in EGMO this year will encourage aspiring female mathematicians to pursue their passion for math.

After EGMO, Elaine hopes to continue her quest for a deeper understanding of mathematics. She hopes to study math or theoretical computer science in university and to pursue a math-related career in the future. Elaine also likes travelling, curling, reading, meeting new people, and exploring new places.