

Anne Fayolle

CONTACT INFORMATION	Department of Mathematics University of Utah , LCB 317.	fayolle@math.utah.edu
RESEARCH INTERESTS	Algebraic geometry and commutative algebra.	
EDUCATION	University of Utah PhD in mathematics (2022 - Present)	
	École Polytechnique Fédérale de Lausanne (EPFL) MSc. Mathematics, July 2022	
	McGill University BSc. First class honours in mathematics, minor in computer science, May 2020	
	Université de Montréal Certificate Philosophy, with mention of excellence, May 2020	
SCHOLARSHIPS AND GRANTS	2023 2023 2023 2022 2019 2019 2017	Graduate Student Travel award, NSERC PGS-D (held), NSERC CGS-D (offered), EDGES fellowship University of Utah, FRQNT supplement to the NSERC award, NSERC USRA, McGill University, Alma Mater entrance scholarship, McGill University
PREPRINTS	J. Carvajal-Rojas, Anne Fayolle, <i>On tame ramification and centers of F-purity</i> . ArXiv e-prints, 2023. arXiv:2308.02660	
TEACHING	Winter 2024 Winter 2023	MATH 1220 <i>Calculus II</i> Utah MATH 1320 <i>Calculus II for engineers</i> (TA) Utah
SERVICE	2024 2023-2024 2023-2024 2021-2022 2020-2022 2019-2020	BRIDGES co-organizer (AWM conference aimed towards early graduate students and advanced undergraduates) Student commutative algebra seminar organizer Graduate Student Advisory Committee EDI representative Polyquity committee member Polyquity is the association that promotes gender equality on the EPFL campus EPFL mentor Mentoring a group of first year students to help them navigate the EPFL and math life. Vice-President SUMM SUMM is the largest undergraduate math conference in Canada with over a hundred participants annually.
TALKS	<i>Tame ramification and centers of F-purity</i> , Upcoming Researchers in Commutative Algebra, University of Nebraska Lincoln, Summer 2024 <i>Tame ramification and centers of F-purity</i> , CIMAT Commutative Algebra Learning Seminar, CIMAT, Spring 2024	

Tame ramification and centers of F -purity, Commutative Algebra Seminar, University of Utah, Fall 2023

On tame ramification and compatible ideals, BIKES, the Graduate Student Seminar at the University of Utah, Fall 2023

Compatible ideals and their behavior under finite covers, Commutative Algebra Reading Seminar, University of Nebraska, Fall 2023

An introduction to compatible ideals, Commutative Algebra Graduate Student Seminar at U Michigan, Spring 2023

An introduction to compatible ideals, BIKES, the Graduate Student Seminar at the University of Utah, Spring 2023

Algorithms on lattices, Undergraduate research seminar, McGill. (August 2019)

Representations of $SL_2(\mathbb{R})$, Undergraduate reading seminar on automorphic forms, McGill. (July 2019)

POSTERS

Tame ramification and centers of F -purity, Western Algebraic Geometry Symposium, Washington University in St. Louis, Fall 2023.