Anne Fayolle

CONTACT INFORMATION	-	ent of Mathematics y of Utah , LCB 317.		fayolle@math.utah.edu		
RESEARCH INTERESTS	Algebraic geometry and commutative algebra.					
EDUCATION	University of	of Utah				
	PhD in mathematics (2022 - Present) École Polytechnique Fédérale de Lausanne (EPFL)					
	MSc. Math	MSc. Mathematics, July 2022 McGill University				
	McGill Unive					
		t class honours in mathematics, minor in computer science, May 2020				
	Université de Montréal					
	Certificate	Certificate Philosophy, with mention of excellence, May 2020				
SCHOLARSHIPS AND	2023	Graduate Student Travel award,				
Grants	2023	NSERC PGS-D (held),				
	2023	NSERC CGS-D (offered),				
	2022	EDGES fellowship University of Utah,				
	2019 2019	FRQNT supplement to the NSERC award, NSERC USRA, McGill University,				
	2017	Alma Mater entrance scholarship, McGill University				
Papers	J. Carvajal-Rojas, Anne Fayolle, On tame ramification and centers of F-purity. Jou					
THE ENG		London Mathematical Society. DOI: jlms.12993				
TEACHING	Winter 2025	MATH 1030	Quantitative reasoni	ing	Utah	
	Winter 2024	MATH 1220	Calculus II	(57.4.)	Utah	
	Winter 2023	MATH 1320	Calculus II for engir	neers (TA)	Utah	
SERVICE	2024-2025	AWM mentor				
	2024	BRIDGES co-organizer (AWM conference aimed towards early				
	2022 2024		nts and advanced und			
	2023-2024 2023-2024	Student commutative algebra seminar organizer Graduate Student Advisory Committee EDI representative Polyquity committee member				
	2023-2024					
	Polyquity is the association that promotes gender equality on the EPFL campus 2020-2022 EPFL mentor Mentoring a group of first year students to help them navigate the					
	2019-2020	EPFL and math life. Vice-President SUMM				
		SUMM is the largest undergraduate math conference in Canada with over a hundred participants annually.				

Talks

Centers of perfectoid purity, CIMAT Algebra seminar, Fall 2024

Centers of $perfectoid\ purity,$ Congreso nacional de la sociedad matemática mexicana, Fall2024

Mixed characteristic compatible ideals, Upcoming Researchers in Commutative Algebra, University of Nebraska Lincoln, Summer 2024

Tame ramification and centers of F-purity, 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.