

EDUCATION	University of Washington <i>Ph.D. in Computer Science and Engineering</i> • Advisor: Anup Rao • Research areas: Coding Theory, Complexity Theory	Seattle, USA 2018 - present
	McGill University <i>B.Sc. Honours in Mathematics and Physics, Minor in Computer Science</i>	Montreal, Canada 2014 - 2018
PUBLICATIONS	<ol style="list-style-type: none"> 1. From Bit to Block: Decoding on Erasure Channels with Henry Pfister and Gilles Zémor. <i>Preprint</i>, 2025 2. List-Decoding Capacity Implies Capacity on the q-ary Symmetric Channel with Francisco Pernice and Mary Wootters. <i>Preprint</i>, 2024 3. A Criterion for Decoding on the Binary Symmetric Channel with Anup Rao. <i>Advances in Mathematics of Communications</i>, 2024 	
TEACHING	Teaching Assistant , University of Washington	
	<ul style="list-style-type: none"> CSE 531: Computational Complexity CSE 421: Introduction to Algorithms CSE 431: Introduction to Theory of Computation CSE 521: Applied Algorithms CSE 311: Foundations of Computing 1 CSE 373: Data Structures and Algorithms CSE 490: Toolkit for Modern Algorithms 	Spring 2022 Fall 2021, Fall 2020, Winter 2020 Spring 2021 Winter 2021 Spr 2019, Spr 2020, Fall 2019, Fall 2018 Summer 2019 Winter 2019
AWARDS	NSERC Postgraduate Scholarship	2020
	NSERC Undergraduate Student Research Award	2016, 2017
TALKS	University of Copenhagen: List Decoding Capacity Implies BSC Capacity	Aug 2024
	UW Theory Seminar: On List-Decoding Transitive and Doubly Transitive Codes Over the Binary Symmetric Channel	Mar 2023
	UW Theory Lunch:	
	<ul style="list-style-type: none"> Reed-Muller Codes Achieve Bit-Capacity Top-Down Proofs for Constant Depth Circuits Lower Bounds Applications of the Saddlepoint Method in Combinatorics Weight Distribution of Reed-Muller Codes Lower Bounds on Arithmetic Circuits with Bounded Coefficients 	Mar 2024 Nov 2023 Oct 2022 Feb 2020 Jun 2019

SERVICE

Reviewer: *IEEE Transactions on Information Theory* 2024
IEEE International Symposium on Information Theory 2024

Area Chair for PhD Admissions: University of Washington 2022

Organizer for Theory Lunch: University of Washington Fall 2023, Spring 2024

REFERENCES

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