Eric David Stubley

 ■ +1 (312) 978-7914
 ■ eric.stubley@mail.mcgill.ca
 ● ericstubley.github.io Citizenship: Canadian

	Education
2015-2021	Doctor of Philosophy, Mathematics University of Chicago Thesis: Classical points of low weight in <i>p</i> -adic families of modular forms Advisor: Frank Calegari
2015–2017	Master of Science, Mathematics University of Chicago
2011-2015	Bachelor of Science, Honours Mathematics McGill University
	Employment
2021-2022	CRM-ISM Postdoctoral Fellow Centre de Recherches Mathématiques, Montreal
	Research Interests
	Algebraic number theory, especially Galois representations, Galois cohomology, and the Langlands program
	Awards and Honours
2017-2020	NSERC Postgraduate Scholarship, doctoral level <i>NSERC</i> , held at University of Chicago Competitive scholarship awarded annually to around 400 students associated with Canada
2018, 2019	Nominated for the Physical Sciences Teaching Prize University of Chicago Awarded to up to 3 graduate student teachers each year based on undergraduate nominations
2015	Charles Fox Memorial Prize in Mathematics McGill University Faculty of Science Awarded annually to one student who has achieved high academic standing in mathematics
2014, 2015	NSERC Undergraduate Student Research Award NSERC, held at McGill University Competitive scholarship funding summer research
2013	Richard and Mary Shaw Scholarship in Science <i>McGill University Faculty of Science</i> Awarded annually to one student who has achieved high academic standing in science
2012	Scholarship offer McGill University Schulich School of Music
2011	Gold Medal Canada-Wide Science Fair One of 10 gold medals, project on numerical modelling of bacterial population growth
	Publications
	Class groups of Kummer extensions via cup products in Galois cohomology Joint with Karl Schaefer Trans. Amer. Math. Soc. 372 (2019), no. 10, 6927-6980.

Invited Talks

October 2021	Solving equations with origami Carnegie Mellon University Math Club, (online)
October 2021	Class groups, congruences, and cup products Quebec-Vermont Number Theory Seminar
March 2021	Class groups, congruences, and cup products <i>Tutte Institute for Mathematics and Computing</i> , (online)
February 2021	Locally split Galois representations and Hilbert modular forms of partial weight one Ohio State University, number theory seminar (online)
January 2021	Locally split Galois representations and Hilbert modular forms of partial weight one University of Michigan, number theory seminar (online)
November 2020	Locally split Galois representations and Hilbert modular forms of partial weight one Quebec-Vermont Number Theory Seminar, (online)
June 2020	Locally split Galois representations and Hilbert modular forms of partial weight one $UCLA$, number theory seminar (online)
April 2020	Locally split Galois representations and Hilbert modular forms of partial weight one $U\!IUC,$ number theory seminar (online)
January 2020	Class groups, congruences, and cup products UW Madison, number theory seminar
September 2018	Class groups, congruences, and cup products Johns Hopkins University, number theory seminar
	Other Talks
2015-2021	I regular spoke in University of Chicago graduate student seminars, particularly the student number theory seminar. I gave an average of 8 of these talks per year.
October 2021	Maine-Quebec Number Theory Conference
June 2020	Chicago Number Theory Day 2020, lightning talk
January 2015	Seminar in Undergraduate Mathematics in Montreal
October 2014	McGill University Faculty of Science Undergraduate Research Conference, poster presentation
July 2014	Canadian Undergraduate Mathematics Conference
	Teaching Experience
2017-2021	 Lecturer, University of Chicago Responsibilities included planning and giving all lectures, assigning weekly homework, writing and grading weekly quizzes, writing and grading midterm and final exams, supervising a team of undergraduate teaching assistants, and assigning final grades. Courses taught: Calculus 3 (Fall 2019 (2 Sections), Winter 2021) Studies in Mathematics 1 & 2 (Fall 2018, Winter 2019) Elementary Functions and Calculus 1 & 2 (Fall 2017, Winter 2018)
Summer 2021	Academic Coordinator, Canada/USA Mathcamp Academic coordinator for an intensive five week summer program in mathematics for high

Academic coordinator for an intensive five week summer program in mathematics for high school students. I was responsible for designing the overall academic schedule, inviting and liasing with visiting speakers, and coordinating the 15 person teaching staff.

Summers 2019, 2020, 2021	 Mentor, Canada/USA Mathcamp Instructor for an intensive five week summer program in mathematics for high school students. Designed and taught 14 short courses on undergraduate and graduate level topics in mathematics. As the academic advisor to a group of 6–7 students, I helped guide them to which of the 20+ classes offered every week best suited their background and interests. Select list of courses taught: What are your numbers worth? (Summer 2021 (online)) Congruences of Bernoulli numbers and zeta values (Summer 2020 (online)) Introduction to ring theory (Summer 2020 (online)) How to ask questions? (Summer 2020 (online)) Change ringing (Summer 2019 (with Tim Black)) Everything you ever wanted to know about finite fields (Summer 2019) You can't solve the quintic (Summer 2019)
Summer 2018	Teaching Assistant , Collegiate Scholars Program Teaching assistant at a college preparation program for first generation college students for
	a six week class in elementary number theory and cryptography. Responsibilities included grading weekly homework assignments, assisting the instructor in preparing lectures, and guiding student discussions and classwork.
2016 - 2017	College Fellow, University of Chicago
	 Teaching assistant for upper level undergraduate classes. Responsibilities included grading, running problem sessions, writing exam questions, and giving several lectures. Partial Differential Equations (Spring 2017) Ordinary Differential Equations (Winter 2017) Complex Analysis (Fall 2016)
2016–2017	Graduate Student Mentor , University of Chicago Supervised undergraduate projects for the University of Chicago directed reading program (DRP) and research experience for undergraduates program (REU). Responsibilities included advising students in choosing topics for reading courses, guiding students through research projects, and assisting students in preparing oral presentations and written reports.
2014-2015	Undergraduate Teaching Assistant , <i>McGill University</i> Worked at the drop-in mathematics helpdesk. Assisted students from all undergraduate mathematics classes with understanding material from classes and homework problems.
	Professional Service
	Reviewer for Transactions of the American Mathematical Society.
Spring 2018, 2019	Organized one day improv workshops for graduate students in mathematics.
Spring 2018	Organized a seminar on Classical Papers in Number Theory.
Winter 2018	Organized a seminar on Iwasawa Theory.
September 2017	Organized WOMP, the warm up program for incoming graduate students in mathematics.
Spring 2016	Organized a learning seminar for first year graduate students in number theory.
	Professional Development
Fall 2020	Fundamentals of teaching in the mathematical sciences Chicago Center for Teaching, Chicago
June 2018	Communicating mathematics effectively University of Washington, Seattle
Fall 2018	Course design and college teaching Chicago Center for Teaching, Chicago
April 2017	Improv for science communication University of Chicago Physical Sciences Division, Chicago
	Conferences and Workshops Attended
October 2021	Maine-Quebec Number Theory Conference University of Maine, Orono (online)

August 2020	Serre weights conjectures and geometry of Shimura varieties CRM, Montreal (online)
June 2020	Chicago Number Theory Day UIC, Chicago (online)
March 2020	Arbeitsgemeinschaft: derived Galois deformation rings and cohomology of arithmetic groups Oberwolfach, Germany (cancelled)
March 2020	Arizona winter school on nonabelian Chabauty University of Arizona, Tucson
October 2019	Midwest arithmetic geometry and number theory series OSU, Columbus
March 2018	Arizona winter school on Iwasawa theory University of Arizona, Tucson
November 2017	Motives, Galois representations, and cohomology around the Langlands program IAS, Princeton
March 2017	Arizona winter school on perfectoid spaces University of Arizona, Tucson
January 2015	Seminar in undergraduate mathematics in Montreal Université de Montréal, Montreal
July 2014	Canadian undergraduate mathematics conference Carleton University, Ottawa
June 2014	Counting arithmetic objects CRM, Montreal
	Other Interests
	Change ringing and the mathematics of change ringing.