Breki Pálsson

Address Grenimelur 47 107 Reykjavík Iceland	Education			
	2023	Université du Luxembourg Research internship resulting in a ma of Professor <u>Gabor Wiese</u>	Mention Bien asters thesis under the supervision	
+354 777 4527 palsbreki@gmail.com	2022 - 2023	Sorbonne Université Mention Bien M2. Mathématiques fondamentales A collaborative program between three universities in Paris focusing on fundamental mathematical re-		
Languages		search.		
Icelandic: Native, English: Advanced, French: Intermediate, Danish: Pre-intermediate	2021 - 2022	Sorbonne Université M1. Mathématiques et applications	Mention Bien	
	2018 - 2021	University of Iceland B.Sc. Mathematics	First class with distinction	
Programing Python, C++ , C, R, Java, SAS, SQL, TensorFlow, Sagemath, Magma, Latex.	2019	McGill University Exchange Program		
	2014 - 2018	Menntaskólinn í Reykjavík Junior college		

Projects and talks

2023	Investigating Residue Degrees in Number Fields related to Modula Forms and their Connections to Permutation Cycles. A talk given in the Mathematics Colloquium at the University of Iceland		
	On the Asymptotic Behavior of the Coefficient Field of Newforms Modulo <i>p</i> Five months masters project in collaboration with the University of Lux- embourg and Sorbonne University, developing and programming algo- rithms to calculate statistics on number fields connected to special mod- ular forms, <u>PDF</u> .		
	Modular Forms and Congruences A presentation about the basic theory of modular forms for a Mathemat- ical Seminar in Farum <u>PDF</u>		
2022	The Hasse-Minkowski Theorem First year Masters project under the supervision of Antoine Ducros, <u>PDF</u>		
2021	Symplectic varieties Bachelors theisis under the supervision of Valentina Giangreco M Puletti,PDF (in Icelandic)		

Attended Conferences and mini courses

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2023	Université du Luxembourg <u>Bilux</u> , a PhD student seminar meeting between the Univ bourg and the University of Milano-Biocca	Seminar versity of Luxem-
	Mathematical Seminar in Farum Student organized seminar	Seminar
2022	Aix-Marseille University Topology and algebra : knots, algebraic curves and sir	Master class
	Eötvös Loránd University Summer school in number theory	Summer School
	EPFL Number Theory Days	Seminar
Notable	Achievements	
2021-2022	Fondation Sciences Mathématiques de Paris Received the two-year PGSM scholarship from the For Mathématiques de Paris to pursue my master's degree a versité	Scholarship ndation Sciences at Sorbonne Uni-
2019	Reboot Hackathon First place for the project; Lighting up Reykjavik where tain information about interesting places in Reykjavík by pillars with the help of artificial intelligence or via a web	Contestant tourists can ob- talking to basalt psite.
2017, 2018	International Mathematical Olympiad One of Iceland's 6 representatives, results.	Contestant
2015-2018	Various competitions Icelandic National Mathematics Contest 2017, 2016 (<u>6th</u> and <u>2rd</u>)	Contestant
	<i>BOXID</i> - innovation and construction competition 2016 (3rd)	
	<i>Nordic Mathematical Contest</i> 2018, 2017, 2016	
	<i>Icelandic National Physics Contest</i> 2018, 2017 (18th and 12th)	
	Junior College Programming competition 2018	

Previous Employment

2021	Landsbankinn In charge of all the day-to-day work of the marke as mortgage calls between foreign banks and ma customers. Responsible for the daily report on the ance to the Central Bank, along with monitoring areas regarding risk.	Internship t risk department, such argin calls to the bank's e foreign exchange bal- and analysis of various
2020	StudyHax Responsible for the creation of teaching materials ematics intended for high school students.	Creating educational content s for self-study in math-
	 Genki Instruments Three-month research project on time series cla accelerometer and gyroscope combo. Our four-ma classifier able to accurately classify both comphand or finger gestures in real time and interpret mands. University of Iceland Assistant Teacher for Mathematical Analysis II 	Software development assifiers for a wearable nan intern team created blex and inconspicuous them as discrete com- Teaching
2019	Jafna A startup where I participated in the design and to to-peer banking solution that enables users to len intermediaries.	Software development development of a peer- id to each other, without
2017-2018	Eimskip Responsible for the development of an interface calculates container shipping charges by location tween different countries easily.	Software development be for a calculator that n, size and volume be-
2017 - 2020	Tutoring Mathematics Private tutoring	Teaching