Curriculum Vitae Dr. Linda Frey

Personal information

Last name Frey, née Raabe First names Linda Karina

E-Mail Linda.Frey89@gmail.com

Website www.lorifan.de

YouTube Channel www.youtube.com/c/LindaFrey

Date of birth 23.05.1989

Civil status Married, four children (*07/2013, *01/2015, *06/2019, *03/2021)

Education and Research Positions

04/2022 to 09/2023 part-time (75 %) researcher position.

Universität Göttingen PostDoc mentor: Prof. Dr. Preda Mihăilescu

Germany

10/2018 to 09/2021 early PostDoc.mobility grant (SNF).
University of Copenhagen PostDoc mentor: Prof. Dr. Fabien Pazuki
working on heights and Igusa invariants

04/2015 to 06/2018 PhD in mathematics, researcher position. Universität Basel Advisor: Prof. Dr. Philipp Habegger

Switzerland Title "Height Lower Bounds in some non-Abelian Exten-

sions", defended with "magna cum laude" on June 21st 2018

04/2013 to 03/2015 PhD in mathematics, researcher position.
TU Darmstadt Advisor: Prof. Dr. Philipp Habegger

Germany Working title "Heights and elliptic curves"

09/2012 to 03/2013 PhD in mathematics, researcher position.
Universität Frankfurt Advisor: Prof. Dr. Philipp Habegger

Working title "Heights and elliptic survee"

Germany Working title "Heights and elliptic curves"

09/2011 to 10/2012 Master of Science ETH in mathematics

ETH Zürich Master Thesis "Kummer theory on elliptic curves",

Switzerland Advisor: Prof. Dr. Emmanuel Kowalski

final grade 5,33 (6: best, 1: worst)

04/2008 to 07/2011 Bachelor of Science in mathematics

Universität Mainz Bachelor Thesis "Freyd-Mitchellscher Einbettungssatz"

Germany Advisor: Prof. Dr. Manuel Blickle

final grade 2,0 (1: best, 5: worst)

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Awards, Grants and Fellowships

10/2018 to 08/2021 Full research stipend of the Swiss National Science Foundaearly PostDoc.mobility tion, worth 190.000 CHF 06/2018 Award for the best talk in the Swiss Graduate Colloquium Birkhäuser Prize 2018 02/2017 to 11/2017 Program of the Universität Basel for highly qualified female antelope@university PhD students, worth 7.500 CHF (see www.unibas.ch/antelope) 07/2017 to 12/2017 Liberation of teaching duties, worth 6.000 CHF (see www.unibas.ch/getontrack) get on track 03/2008 Award of the DMV for an outstanding written exam (highest

Peer-reviewed Publications

Abiturpreis Mathematik

2021 Linda Frey - Explicit Small Heights for Infinite Non-Abelian Extensions, Acta Arithmetica 199 (2021), no.2, 111-133 2021 accepted for publication in Ann. Sc. Norm. Super. Pisa Cl. Sci. (5)23(2022), no.3, 1357–1393, Linda Frey - Small Heights for Non-Abelian Extensions

grade) in the final exams at high school

Preprints and work in progress

preprint, Linda Frey, Elisa Lorenzo García, Samuel Le Fourn
- Explicit height estimates for CM curves of genus 2
preprint, John Cullinan, Shanna Dobson, Linda Frey, Asim-
ina Hamakiotes, Roberto Hernandez, Nathan Kaplan, Jorge
Mello, and Gabrielle Scullard - The probability of non-
isomorphic group structures of isogenous elliptic curves in
finite field extensions, II
accepted for publication in Women in Numbers Europe 4
Proceedings, Marta Dujella, Anne-Maria Ernvall-Hytönen,
Linda Frey, Bidisha Roy - Transcendence measures for $e^{\frac{1}{n}}$
in preparation, Mohamed Nour Elislam Belkacem, Linda
Frey, Laid Kahloul, Saber Benharzallah, Samir Tigane, Na-
dia Hamani - A Blockchain-based Decentralized Approach
for Data Integrity in Transformative Computing

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Invited Talks

2022 Aalto University, Finland - cancelled because of covid

2019 Göteborg, Sweden

Universität zu Köln, Germany

Charmey, Switzerland

2018 Université de Rennes, France

University of Bristol, United Kingdom

Universität Mainz, Germany TU Darmstadt, Germany

The Hebrew University of Jerusalem, Israel

Institut Fourier Grenoble, France Université de Caen Normandie, France University of Copenhagen, Denmark University of Cape Town, South Africa Stellenbosch University, South Africa

Stellenbosch University, South Africa

2016 Charmey, Switzerland

2014 Université de Bordeaux, France

Teaching Activities

2022-2023 Algebraic Number Theory (lecture, 2 hours per week, Mas-

University of Göttingen ter level)

Germany Linear Algebra I (exercise lessons)

Diskrete Mathematik (exercise lessons, Bachelor level)

2018-2021 Topics in Number Theory (lecture, 4 hours per week, Mas-

University of Copenhagen ter/PhD level)

Denmark

2017

2015-2018 Elliptische Kurven II (exercise lessons and sometimes sub-

Universität Basel stitution of the lecturer)

Switzerland Seminar for gifted high school students (twice)

Lineare Algebra II (twice) (exercise lessons and youtube

videos)

2013-2014 Seminar Kategorientheorie TU Darmstadt Co-supervised Bachelor's theses

Germany

Seminar Höhentheorie 2012-2013

Universität Frankfurt

Germany

2011-2012 Linear Algebra I (exercise lessons)

ETH Zürich Grundlagen der Mathematik II (exercise lessons)

Switzerland

2009-2011 Mathematik für Informatiker I (exercise lessons)

Universität Mainz Lineare Algebra I (twice) (exercise lessons)

Germany Lineare Algebra II (exercise lessons) Curriculum Vitae Dr. Linda Frey

(Organized) Conferences and Research Visits

2022	Conference on Arithmetic Algebraic Geometry, Darmstadt, Germany
	Women in Arithmetic Geometry, Heidelberg, Germany
	Women in Numbers Europe 4, Utrecht, Netherlands
	$28th\ Nordic\ Congress\ of\ Mathematicians,$ Espoo, Finland $(\mathbf{speaker})$ - cancelled because
	of covid
2019	N cube days, Göteborg, Sweden (plenary speaker)
	Topics in Rational Points (conference), Basel, Switzerland
	Topics in Rational Points (summer school), Basel, Switzerland
	Curves and Groups in Families, Rennes, France
	5th Mini Symposium of the Roman Number Theory Association, Rome, Italy (speaker)
	goMATH symposium, Zürich, Switzerland
2019	8th Swiss-French workshop on algebraic geometry, Charmey, Switzerland (speaker)
2018	N cube days, Lund, Sweden
	FUNference in honor of Philipp Habegger's 40th birthday, Basel, Switzerland (organizer)
	Galois Representations and Heights, Alpbach, Austria
	Torsion Subgroups and Galois Representations of Elliptic Curves, Zagreb, Croatia
	(speaker)
	Swiss Graduate Colloquium, Basel, Switzerland (speaker and award winner)
	Number Theory Days, Basel, Switzerland
	4th Mini Symposium of the Roman Number Theory Association, Rome, Italy
	7th Swiss-French workshop on algebraic geometry, Charmey, Switzerland
2017	Research visit with Florian Breuer, Stellenbosch, South Africa
	Specialization Problems in Diophantine Geometry, Cetraro, Italy
	Number Theory Days, Lausanne, Switzerland
	Arithmetic of Function Fields, Münster, Germany
	6th Swiss-French workshop on algebraic geometry, Charmey, Switzerland (speaker)
2016	Leuca2016 Celebrating Michel Waldschmidt's 70th birthday, Leuca, Italy
2014	5th Swiss-French workshop on algebraic geometry, Charmey, Switzerland (speaker)
2014	Colloque Jeunes Chercheurs en Théorie des Nombres, Bordeaux, France (speaker)
2013	Research visit at the Institute of Advanced Study, Princeton, USA

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Other employment history

06/2010 to 08/2011 Private tutoring of university students in mathematics

08/2011 to 08/2011 Substitute teacher at Alte Kanti Aarau (senior classes)

04/2002 to 04/2011 Private tutoring of high school students (all subjects and all

levels)

Career Breaks

2023/2024 campaigning for becoming mayor of Mühltal (5 months)

2021/2022 Parental leave fourth child (6 months)

2021 Maternity leave fourth child(5 months)

2020 Accident (broken arm, 2 months)

2020 Corona leave due to lack of child care (2 months)

2019/2020 Maternity leave third child (7 months)

2015/2016 Accident (broken knee, 11 months)

2014/2015 Maternity leave second child (7 months)

2013 Maternity leave first child (5 months)

Voluntary Activities

2023/2024 candidate for mayor in Mühltal since 2021 chairwoman of Grüne Mühltal since 2021 member of the local parliament,

vice chairwoman of the parliament,

chairwoman of the Haupt- und Finanzausschuss