

Gilles Felber

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14.10.1995



Education

- 2021 – 2024 **PhD**, *University of Bonn & Max-Planck Institut for Mathematics*, supervised by Prof. Dr. Valentin Blomer
- 2018 – 2020 **Mathematics Master**, *Swiss Federal Institute of Technology in Zürich (ETHZ)*
- 2014 – 2017 **Mathematics Bachelor**, *Swiss Federal Institute of Technology in Lausanne (EPFL)*
- 2011 – 2014 **High School diploma**, *Denis-de-Rougemont High School*, Neuchâtel
Mention good

Projects

- Master Thesis **The sphere packing problem in dimensions 8 and 24**, supervised by Prof. Dr. Ö. Imamoglu, ETHZ, 30 credits
Study of the papers of M. Viazovska and al. proving that the sphere packings given by the E_8 and Leech lattices are the densest in their respective dimension.
- Semester Paper **The Mordell-Weil theorem and the Birch and Swinnerton-Dyer conjecture**, supervised by Prof. Dr. E. Kowalski, ETHZ, 8 credits
- Bachelor Thesis **Le théorème de densité de Chebotarev**, supervised by Dr. R. Moreira and Prof. Dr. P. Michel, EPFL, 11 credits
Translation: the Chebotarev density theorem
- High School Thesis **Étude des pavages du plan par la théorie des groupes**, supervised by Dr. A. Gournay as part of the scientific vocations program (PROVOC), Neuchâtel University
Translation: study of the tessellations of the plan by the group theory

Other mathematics activities

- 2022 **FANTASY - Young Scholars in the Analytic Theory of Numbers and Automorphic Forms**, Organizer, University of Bonn
- 2021 **Women in automorphic forms**, conference, University of Bielefeld
- 2021 **Harmonic Analysis and Analytic Number Theory**, trimester program, Hausdorff Research Institute for Mathematics, Bonn
- 2019 **Topics in Rational and Integral Points**, summer school, Basel University
- 2019 **Super Strong Approximation in Groups**, summer school, Hebrew University of Jerusalem
- 2014 **Bronze medal**, *Swiss Mathematics Olympiads*
- Since 2010 **Participation in several Swiss finals**, *International competition for mathematical and logical games (FSJM)*

Teaching

- 2022 **Algebra I**, Prof. Dr. Valentin Blomer, University of Bonn, tutoring
- 2019 **Modular forms seminar**, directed by Pr. Dr. Ö. Imamoglu, ETHZ
Subject: sums of four and eight squares
- 2016 – 2017 **Mathematics and physic tutoring**, EPFL
Tutoring training workshop

Civilian service

- 2020 **Supervision and animations at the adventure field of Pierrefleur**, *Foundation for socio-cultural animation in Lausanne*, Lausanne (VD)
74 days, course “supervision of children I”
- 2020 **Collaboration in the maintenance of nature conservation**, *Office for the protection of nature of the canton Zürich*, Pfäffikon (ZH)
40 days
- 2018 **Archaeological digs technician**, *State of Jura - archaeology and paleontology section of the office of culture*, Delémont and St-Ursanne (JU)
26 days
- 2017 – 2018 **Market gardener’s helper**, *Fribourg detention facility*, Sugiez (FR)
180+3 days, course “communication and support”
- 2015 **Mason’s helper**, *Association for the protection of dry stone walls*, Le Noirmont (JU)
40 days

Volunteering

- Since 2019 **Guarding of the mountain hut of Saleinaz (SAC)**, Orsières (VS)
1 week per year
- 2019 – 2020 **Climbing with refugees**, *association ClimbAid*, Zürich
- 2019 **Inmate visits to the prison of Zürich airport**, *association Solinetz*, Zürich
- Since 2015 **Volunteering at several festivals and events**, Neuchâtel
NIFFF, Parabôle, night of the game of Oniris, tchoukball tournaments, scout camp

Hobbies

- Sport Climbing, hiking, mountain sports, tchoukball
- Computer Programming, mainly in JavaScript and C++
- Other interests Science, nature, reading, video games, gardening, brewing

Certificates

- 2020 **Definitive driver’s license**, *category B*
- 2015 **Tchoukball referee II**, *expired*
- 2012 **Percussion and musical language up to secondary II**, *Neuchâtel’s academy of music*, Neuchâtel and La Chaux-de-Fonds

Languages

- French Mother tongue
- English Fluent, writing and speaking
- German Intermediate, writing and speaking