Valentin Hanecart



About me

Versatile Meticulous Good public speaker Sense of initiative

Personal

Valentin Hanecart Nationality : French 23 years old Driving licence

Contacts

Interests

Mathematics Physics & Chemistry History Reading Badminton, swimming, handball

EDUCATION

2024- Second year of Master, in advanced mathematics, specialisation in algebra and number theory

UFR ST, Besançon, France

Third year of Magistère de Mathématiques (complementary university courses to the master)

UFR ST, Besançon, France

2024 **Agrégation externe de Mathématiques** (competitive examination allowing to teach in

French education system), accepted 142nd over 315

2023-2024 **Second year of Master, in general mathematics**, preparation to the "agrégation ex-

terne de mathématiques", grade "Bien" (\sim pass 70-80%)

UFR ST, Besançon, France

2022-2023 | First year of Master, in general mathematics, grade "Assez bien" (~ pass 60-70%)

UFR ST, Besançon, France

Second year of Magistère de Mathématiques (complementary university courses to

the master)

UFR ST, Besançon, France

2021-2022 | Third year of Bachelor, in fundamental mathematics, grade "Bien" (\sim pass 70-80%)

UFR ST, Besançon

First year of Magistère de Mathématiques (complementary university courses to the

bachelor)

UFR ST, Besançon, France

2019 - 2021 | **Preparatory class (MPSI and MP*)** (French Classes Préparatoires are two year courses,

equivalent to the first two years of a bachelor's degree, designed to prepare students for competitive entrance examination to the Grandes Écoles (~ engineering schools))

High school Henri Wallon, Valenciennes, France

2019 **Baccalauréat Scientifique, spécialité Mathématiques** (~ high school diploma), grade

"Très bien" (\sim pass 80-100%)

High school Camille Claudel, Fourmies, France

Professional experiences

2024- | Colleur de Mathématiques en MP/MPI et MP2I (\sim oral interrogation

of first and second year preparatory class students in algebra, analysis

and probability)

High school Carnot, Dijon, France

Colleur de Mathématiques en PSI/PSI* (\sim oral interrogation of first

year preparatory class students in algebra, analysis and probability)

High school Victor Hugo, Besançon, France

2022 (3 months) Trainee high school teacher (~ classroom teaching observation, assisting a class teacher, taking charge of a class and teaching for a week)

Middle school Georges Pompidou, Pouilley-les-Vignes, France

2021- **Private lessons** (students in Secondary school and high school)

Besançon, France

2020-2022 (1 month/year) | Versatile municipal employee (maintenance of public spaces and

cleanliness)

Town hall of Trélon, Trélon, France

2018 (1 month) Holiday camp activity leader (handling of children and creation of ac-

tivities)

Activity center of Trélon, Trélon, France

2017-2023 (1 month/year) **Worker** (fixed-term contract) (maintenance of machines)

Glass factory Gerresheimer, Momignies, Belgique

Presentations & Projects

2025 | Master thesis (in progress), under the direction of CÉCILE ARMANA

UFR ST, Besançon, France

Third year project of Magistère, Étude d'extensions galoisiennes non ramifiées (~ Study of non

 $\textit{ramified Galois extensions}), \, \text{under the direction of CHRISTIAN MAIRE}$

FEMTO ST, Besançon, France

Second year project of Master, Introduction aux formes modulaires (~ Introduction to modular

forms), under the direction of CÉCILE ARMANA

UFR ST, Besançon, France

2023 **Day of Magistère**, presentation of the first year project of Master

UFR ST, Besançon, France

First year project of Master, About solvable groups and some applications, under the direction

of AGNÈS DAVID

UFR ST, Besançon, France

2022 Day of Magistère, presentation of the third year project of Bachelor

UFR ST, Besançon, France

Third year project of Bachelor, Theorema Egregium de Gauss (~ Gauss's Theorema Egregium),

under the direction of LYSIANNE HARI

UFR ST, Besançon, France

SEMINARS & ADDITIONAL COURSES ATTENDED

2025 | **33èmes Journées Arithmétiques** (from June 30 to July 4, 2025)

tions, Mathematics and artificial intelligence, Tensor products)

University of Luxembourg, Esch-sur-Alzette, Luxembourg

School of introduction to the research of the Laboratoire de Mathématiques de Besançon

(What is the contemporary version of Hilbert's program ?, Representations of $\mathrm{GL}_2\left(\mathbb{F}_p\right)$ and (some) representations of $\mathrm{GL}_2\left(\mathbb{Q}_p\right)$, Khintchine inequalities, Conservation laws and applica-

Pierrefontaine-les-Varans

2024-2025 Weekly seminar with team of Algebra and Number Theory

Work group with team of Algebra and Number Theory (prismatic cohomology)

UFR ST, Besançon, France

2024 Functional analysis course (duality in Banach spaces, linear structure of Banach spaces and

spaces $C^0(K)$

UFR ST, Besançon, France

Lie groups and algebras course

UFR ST, Besançon, France

 $\textbf{Lectures Sophie Kowalevski} \ (\textbf{Introduction to modular group, Introduction to hydrodynamic} \\$

limits)

Centre Henri Lebesgue, Angers, France

School of introduction to the research of the Laboratoire de Mathématiques de Besançon

(Harmonic functions, Differential geometry, Non commutative integration, Introduction to modular forms, Riemann surface, Fixed-point theorems and amenable abelian groups, Ramsey theory)

Pierrefontaine-les-Varans, France

2023 Masterclass (On convex functions and sets)

UFR ST, Besançon, France

Lectures Sophie Kowalevski (Some aspects (probabilistic, algebraic and algorithmic) of random permutations, To the discovery of the representations modulo p of p-adic groups)

Centre Henri Lebesgue, Angers, France

Differential geometry course (introduction)

UFR ST, Besançon, France

Inferential statistics course

UFR ST, Besançon, France

2022 Discretization of EDPs course

UFR ST, Besançon, France

2021 | Mathematical epistemology course

UFR ST. Besancon, France

DEGREES & CERTIFICATES

2024 Agrégation externe de mathématiques
 2024 Master General Mathematics
 2022 Licence Fundamental Mathematics
 2022 Certificate of competence in English (level B2)
 2019 Baccalauréat Scientifique

Certificate of competence in Spanish (level B1)

COMPUTER SKILLS

LaTeX Very good command Python Very good command Word Good command Excel Good command PowerPoint Good command HTML & CSS Some basics PARI/GP Some basics Scilab Some basics **OCaml** Some basics

LANGUAGE SKILLS

2017

French C2 Native language
English C1 • • • • •
Spanish B1 • • • • •
German A1

REFERENCES

Armana Cécile | Lecturer

UFR ST, Besançon - Team Algebra and Number Theory

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David Agnès Lecturer

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Fouquet Olivier | Professor

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Lancien Gilles Professor

UFR ST, Besançon - Team Functional Analysis

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