

# Davide Modesto

Brescia (BS)

\* 20 April 1999

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## Education

Currently **Master of Mathematics**, *University of Vienna*, Vienna  
2019–2022 **Bachelor of Mathematics**, *Università di Pisa*, Pisa, Grade: 102/110  
2013–2018 **High School**, *Istituto Tecnico Benedetto Castelli*, Brescia, Grade: 80/100

## Bachelor's thesis

title *Flusso geodetico e frazioni continue*  
supervisor Carlo Carminati  
description Study of the asymptotic convergence rate of continued fraction approximants using the ergodicity of the geodesic flow on the modular surface.  
resources [Thesis](#), [Slides](#)

## Experience

Jul–Sep 2024 **Entertainment Staff**, *Jaz Crystal Resort*, Marsa Alam, Egypt  
Worked in guest entertainment and activities, improving communication and coordination in a multicultural setting.  
Aug–Sep 2023 **Volunteer**, *Local Village Project*, Near Lisbon, Portugal  
Participated in community initiatives supporting a small rural village.  
2018–2020 **Rider**, *Deliveroo*  
Delivery rider, managing routes efficiently through personal tools and automation.  
2017 **Internship**, *Myti srl*  
Developed a chatbot prototype. Source: <https://github.com/ElModdy/myti-chat>

## Skills

### Operating Systems

Experienced with both Windows and Linux (especially Arch Linux). Example setup: [video demo](#).

### Reverse Engineering

Extensive experience in static and dynamic analysis of web and Android apps. Reverse-engineered the Deliveroo Rider app (2019). Analyzed [Squid](#) and [AnkiDroid](#), and created a [converter](#) for Squid notes to Anki cards.

### Security

Developed a [malicious browser extension](#) as part of a thesis demo to show cookie exfiltration attacks. Reported vulnerabilities in: – Dormitory Wi-Fi login (Pisa) allowing device disconnection. – Social Hub app (Vienna) affecting laundry authentication.

### CTF / Challenges

Completed all tasks in the **Listen Lab Berghain Challenge** with a strong score. Published write-up: [link](#).

### Automation / Bots

Developed a Klondike Solitaire (Turn 3) solver in Node.js — [demo](#). Currently rewriting it in Rust.