

# Chloé Capon

PhD student in Mathematics

✉ [chloe.capon@umons.ac.be](mailto:chloe.capon@umons.ac.be)

🌐 <http://math.umons.ac.be/staff/Capon.Chloe/>

*Academic CV – updated on May 15, 2023.*

## Research experience

- Sept 2022 – **PhD thesis**, *UMONS*, Belgium.
  - Present Title: Refinement mechanisms in many-sided reactive synthesis.  
Supervisor: [Mickael Randour](#).
- Sept 2021 – **Master's thesis**, *UMONS*, Belgium.
  - Jun 2022 Title: Generation and exploitation of counterexamples in stochastic models.  
Supervisor: [Mickael Randour](#).
- Sept 2021 – **Internship**, *AISIN Europe*, Belgium.
  - Nov 2021 Subject: Vehicle Routing Problem.
- Sept 2020 – **Master's project**, *UMONS*, Belgium.
  - Jun 2021 Subject: Counterexample generation in stochastic models.  
Supervisor: [Mickael Randour](#).

## Education

- 2020 – 2022 **Master's degree in Mathematics – specialist focus: Computer Science**, *UMONS*, Belgium.  
With highest honours. Received the Maurice Boffa Award from the Department of Mathematics.
- 2017 – 2020 **Bachelor's degree in Mathematics**, *UMONS*, Belgium.  
Academic minor in Computer Science. With distinction.

## Publications

Extended versions are available on arXiv (links on [my website](#)).

### Peer-reviewed proceedings

[CLW22] Chloé Capon, Nicolas Lecomte, Jef Wijsen. **Computing H-Partitions in ASP and Datalog**. International Conference on Logic Programming 2022 Workshops co-located with the 38th International Conference on Logic Programming (ICLP 2022), CEUR Workshop Proceedings, volume 3193, 15 pages, 2022.

## Attended research events

- 2022 ASPOCP 2022: 15th Workshop on Answer Set Programming and Other Computing Paradigms (Technion campus, Haifa, Israel).

## Teaching

- Sept 2022 – **Complex Analysis**, *Teaching assistant*, *UMONS*, Belgium.
  - Present Exercise sessions for the course given by [Matthieu Simon](#).

Sept 2022 – **Elementary Mathematics**, *Teaching assistant*, UMONS, Belgium.

Present Supervision of exercise sessions and test grading.

Sept 2022 – **Introduction to Differential Varieties**, *Teaching assistant*, UMONS, Belgium.

Present Exercise sessions for the course given by [Thomas Brihaye](#).

Sept 2022 – **Mathematics - Supplementary Course**, *Teaching assistant*, UMONS, Belgium.

Present Exercise sessions for the course given by [Thomas Brihaye](#).

Sept 2022 – **Mathematics for Computer Science**, *Teaching assistant*, UMONS, Belgium.

Present Exercise sessions for the course given by [Thomas Brihaye](#).

---

## Languages

French (native), English (upper-intermediate), Dutch (lower-intermediate).