

Témoignage d'une chercheuse

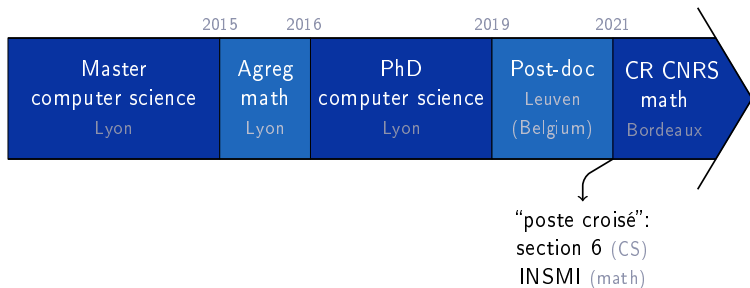
Alice Pellet-Mary

Journée des nouveaux entrants INSMI

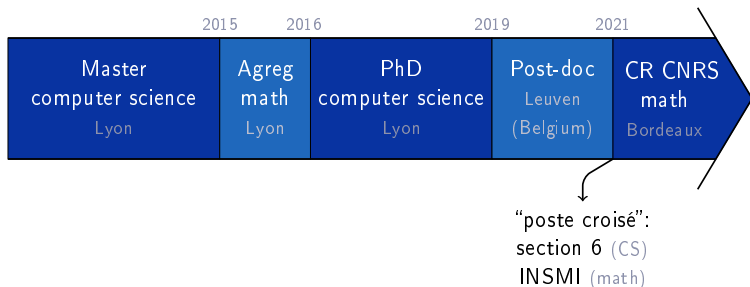


université
de **BORDEAUX**

Before recruitment



Before recruitment



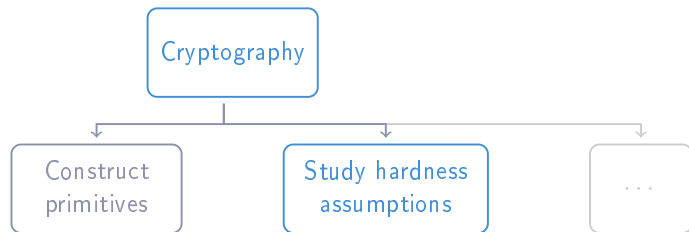
Section: evaluation (read bi-annual reports, promotion,...)

Institute: everyday life (changing lab, ...)

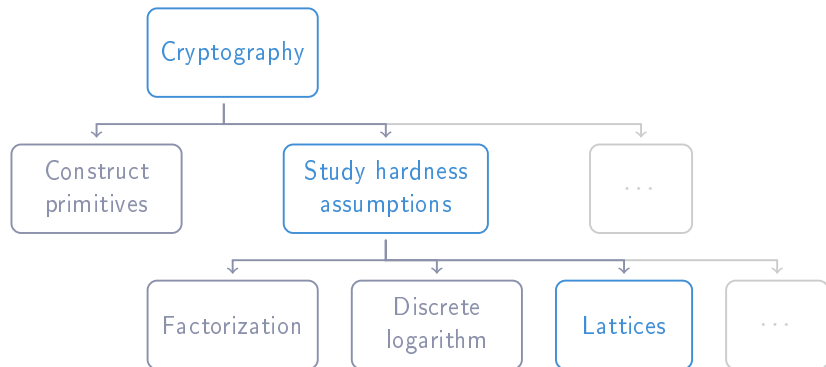
My research topic

Cryptography

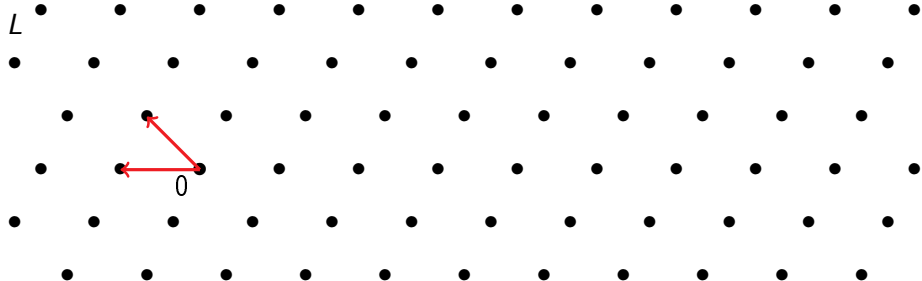
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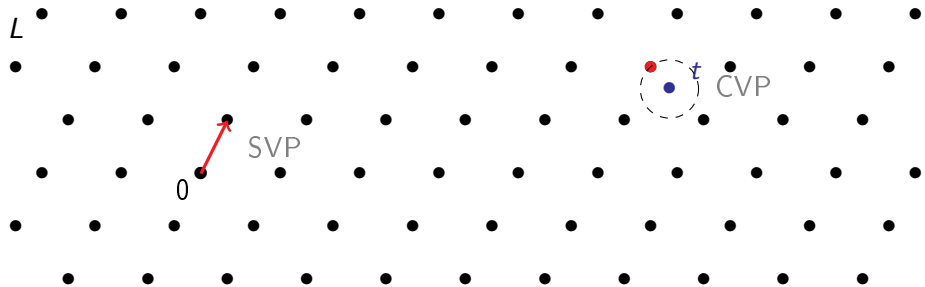
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Lattices



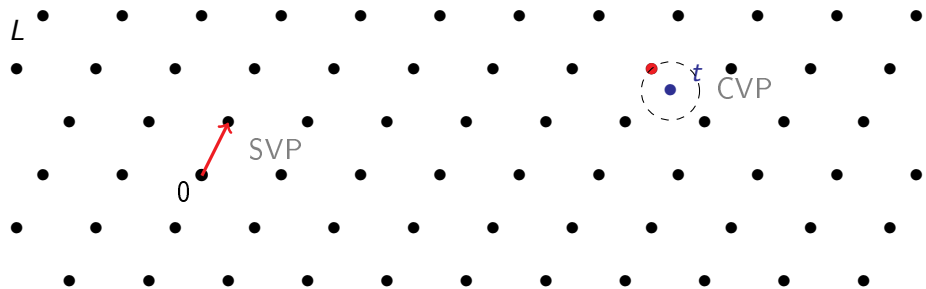
Lattices



SVP : Shortest Vector Problem

CVP : Closest Vector Problem

Lattices



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Questions:

- Algorithms (for SVP, CVP, what complexity?)
- Reductions (If I can solve SVP, can I solve CVP?)
- What if I add some algebraic structure to my lattice?
(e.g., ideal in the ring of integers of a number field)

What I have done since recruitment

Research

Continuity from PhD:

- ▶ studying lattice problems
- ▶ focus more on mathematical aspects
- ▶ with people from Bordeaux and other places

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Learn new topics:

- ▶ quantum computing
- ▶ isogenies

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No teaching the first year and half

50h this year:

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Remark: you need to fill a form on Ariane before teaching (or after)

Supervision

2021: L3, L1

2022: M2, L3, L2

2023: M2, M2, L3, L2

2024: hopefully a PhD student!

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- ▶ easy to ask money for internships in ANR applications

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- ▶ you can usually have 1 PhD student (or 2 co-supervised ones) before HDR

Asking money

- Participation in ANR, PEPR
 - ▶ a few days of work
- ANR jeune chercheuse jeune chercheur (JCJC) (submitted yesterday)
 - ▶ 2 or 3 weeks of work

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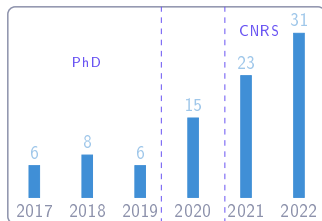
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Lot of opportunities for young researchers:

- ▶ PEPS from INSMI
 - ▶ between 3k€ and 6k€ for traveling and collaborations
- ▶ ANR JCJC
 - ▶ 1 PhD student or 2 years of post-doc + money for travels
- ▶ labs usually have some money for helping young researcher
 - ▶ grants for internship or PhD, travels

Other

- Doing reviews



- Giving talks
- Popularization
- Other administrative tasks (lab council, mentoring, ...)

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program committees, talks, summer schools, popularization, recruiting committees, PhD committees, ...

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Some suggestions for women:

- ▶ decide beforehand what you think is useful

In my case:

popularization to children ✓

summer schools ✓

teaching ✓

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program committees ✗

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Suggestions for everyone: keep inviting women, but don't be insistent

Thank you for your attention