# Iness Ben Guirat, Ph.D.

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## Education

2019 – 2024   **Ph.D.** KU Leuven, Belgium.
Thesis: *Evaluation Techniques for Mix Networks*

2011 – 2017   **Engineering Degree** INSAT, Tunisia.
Networks and Telecommunications.
**Thesis**: Formal Verification at IRI, Paris in collaboration with INRIA, Paris.

2014 – 2015   **Exchange Program** Missouri State University, USA.
Computer Science

## Work Experience

2024-Present   **Postdoctoral researcher** Université Libre de Bruxelles.

**Lecturer** KU Leuven.

2018- 2019   **Research Engineer** INRIA, Paris.

## Fellowship and Awards

2014   **Award** Thomas Jefferson Scholarship Award

2018   **Fellowship:** Global Open Internet First Cohort

## Workshops & Summer Schools

2024   SICT: Co-organizer of a doctoral summer school focused on sustainable ICT.

2025   IMPACT: Co-organizer of a workshop on metadata privacy, co-located with NDSS 2025.

## Languages

**Arabic:** Native **French:** Fluent **English:** Fluent

Muhammed Siddique Horac Horvath In the past I advised one summer internship for 6 weeks and 3 masters students :

# Advising

2019 – 2024   **Ph.D.** KU Leuven, Belgium. Thesis: *Evaluation Techniques for Mix Networks*

2011 – 2017   **Engineering Degree** INSAT, Tunisia. Networks and Telecommunications. **Thesis**: Formal Verification at IRI, Paris in collaboration with INRIA, Paris.

# Advising (continued)

2014 – 2015   🔖 **Exchange Program** Missouri State University, USA. Computer Science

have the following Ph.D students under my supervision : Jason Apolline I have the following master's student : Antoine Colet Muhammed Siddique Horac Horvath In the past I advised one summer internship for 6 weeks and 3 masters students :

# Research Publications

## Journal Articles

**1**   I. Ben Guirat, D. Das, and C. Diaz, "Blending different latency traffic with beta mixing," *Proceedings on Privacy Enhancing Technologies (PoPETs)*, vol. 2024, pp. 464–478, 2. 🔗 DOI: `10.56553/popets-2024-0059`.

**2**   I. Ben Guirat and C. Diaz, "Mixnet optimization methods," *Proceedings on Privacy Enhancing Technologies (PoPETs)*, vol. 2022, pp. 456–477, 3. 🔗 DOI: `10.56553/popets-2022-0081`.

## Conference Proceedings

**1**   J. Kayembe, I. Ben Guirat, and J. T. Muehlberg, "Exploring privacy and security as drivers for environmental sustainability in cloud-based office solutions," in *Proceedings of the 1st International Workshop on Low Carbon Computing (LOCO 2024)*, Glasgow, Scotland, UK, 2024.

**2**   I. Ben Guirat, C. Diaz, K. Eldefrawy, and H. Zeilberger, "Traffic analysis by adversaries with partial visibility," in *European Symposium on Research in Computer Security (ESORICS)*, Springer, 2023, pp. 338–358. 🔗 DOI: `10.1007/978-3-031-51476-0_17`.

**3**   I. Ben Guirat, D. Gosain, and C. Diaz, "Mixim: Mixnet design decisions and empirical evaluation," in *Proceedings of the 20th Workshop on Privacy in the Electronic Society (WPES)*, 2021, pp. 33–37. 🔗 DOI: `10.1145/3463676.3485613`.

**4**   I. Ben Guirat, "Privacy and social movements," in *Internet Science: INSCI 2018 International Workshops, St. Petersburg, Russia, October 24–26, 2018, Revised Selected Papers*, Springer, vol. 5, Springer, 2019, pp. 224–232.

**5**   I. Ben Guirat and H. Halpin, "Formal verification of the w3c web authentication protocol," in *Proceedings of the 5th Annual Symposium and Bootcamp on Hot Topics in the Science of Security (HoTSoS)*, 2018, pp. 1–10.