SOPHIE DRAMÉ MAIGNÉ
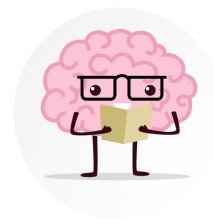
Innovation researcher

EXPERIENCE

Blockchain and Self-Sovereign Identity (SSI) Innovation Researcher
Space Elephant

📅 Sept. 2020 - Dec. 2021   📍 Nantes, FRANCE (remote position)

- Monitoring and vulgarization of SSI-related subjects
- High-level solution design
- Redaction of technical documentation (patent, annual research summary, whitepaper, etc)

IoT Innovation Researcher (Phd Student)
Gemalto/Thalès DIS

📅 July 2016 – Nov. 2019   📍 Meudon, FRANCE

- Research on blockchain ecosystems and IoT access control
- Communication in international conferences
- Developments around access control libraries and blockchain smart contracts

Research engineer
IRT System X

📅 Jan. – July 2016   📍 Palaiseau, FRANCE

Development of a demo platform for IoT security (CHESS platform)

Master Internship
Gemalto

📅 April – Sept. 2015   📍 Meudon, FRANCE

Design and development of an authorization delegation framework for IoT communications.

EDUCATION

Ph.D. in Computer Science
Université Paris-Saclay (Télécom SudParis)

📅 July 2016 – Nov. 2019

Blockchain and access control: Towards a more secure Internet of Things

M.Sc. in Cryptography *with highest honour*
Université Paris Diderot Paris 7

📅 Sept. 2013– Sept. 2015

Education Abroad *First year of Masters*
Cornell University

📅 Sept. 2013 - May 2014   📍 Ithaca, NY, USA

B.Sc. in Maths and Computer Science *with highest honour*
Université Paris Diderot Paris 7

📅 Sept. 2010 – June 2013

MY LIFE PHILOSOPHY

"Have patience. All things are difficult before they become easy."

- Saadi

ONLINE PROFILES

🔗 www.sophiedm.fr/en
in /in/sophie-dramé-maigné-a2a6a8101

CERTIFICATIONS

ISO/IEC 27005 Provisional Risk Manager

STRENGTHS

Analytical Skills   Communication skills
Redaction skills FR & EN
Experienced in remote-working

Protocol design   Security analysis
Risk management   Blockchain
Self Sovereign Identities (SSI)
Access control

LANGUAGES

French   ●●●●●
English ●●●●●
German   ●●●○○

SKILLS

Java   Node.js   MySQL   MongoDB
MQTT   Mosquitto   OAuth 2.0
UMA   Solidity   EBIOS method

HOBBIES

Bridge   Dungeons & Dragons (D&D)
(Cooperative) Board games   Sewing

PUBLICATIONS

👥 Book

- Dramé-Maigné, Sophie (2022). "Authentification décentralisée : la Blockchain en tant que DPKI". in: *Blockchain & Cryptos 60 experts vous expliquent tout*. Ed. by Jean-Luc Lasquellec. Wallcrypt. Chap. 5, pp. 415–419.

👥 Journal

- Dramé-Maigné, Sophie et al. (2021). "Centralized, Distributed, and Everything in between: Reviewing Access Control Solutions for the IoT". in: *ACM Computing Surveys (CSUR)* 54.7, pp. 1–34.

👥 Conference Proceedings

- Dramé-Maigné, Sophie, Maryline Laurent, and Laurent Castillo (2019). "Distributed access control solution for the IoT based on multi-endorsed attributes and smart contracts". In: *2019 15th International Wireless Communications & Mobile Computing Conference (IWCMC)*. IEEE, pp. 1582–1587.
- Dramé-Maigné, Sophie et al. (2018). "Augmented chain of ownership: Configuring IoT devices with the help of the blockchain". In: *International Conference on Security and Privacy in Communication Systems*. Springer, pp. 53–68.

👥 Doctoral Thesis

- Dramé-Maigné, Sophie (2019). "Blockchain and access control: towards a more secure Internet of Things". PhD thesis. Université Paris-Saclay (ComUE).

👥 Technical Specifications

- Dramé-Maigné, Sophie (2021). *Unikname DID Specification*. Tech. rep. Space Elephant. URL: https://github.com/unik-name/did-method-spec/blob/main/did-unik/UNIK-DID-Specification.md.
- Dramé-Maigné, Sophie and Juliette Mégret (2021). *Whitepaper Unikname - The Multipurpose Self-Sovereign Identity Solution without KYC*. tech. rep. Space Elephant. URL: https://github.com/unik-name/unikname-papers/blob/master/unikname_whitepaper.pdf.
- Dramé-Maigné, Sophie (2020). *uns.network DID Method Specification*. Tech. rep. Space Elephant. URL: https://github.com/unik-name/did-method-spec/blob/main/did-uns/UNS-DID-Specification.md.

TRAINING & PROFESSIONAL DEVELOPMENT

Cybersecurity risk management [20 days]

📅 May 2022

- Network architecture
- Compliance with privacy regulations (GDPR)
- Security of a remote work station
- Initiation to the EBIOS Risk Management method

Entrepreneurship [60 hours]

📅 Nov. 2018 & Jan. 2019

- From an idea to an entrepreneurial project: Proof of value
- Defining the MVP (Minimum Viable Product)
- Pitch in front of Business Developers

Management [21 hours]

📅 Jun - July 2018

- The tools of project management: Gantt diagrams, logic networks, etc
- Projects' life cycle
- Agile method

Vulgarization [37 hours]

📅 Jan. 2017, Apr. 2018 & Jun. 2018

- Short impactful summary of my PhD work (Ma thèse en 180s [FR])
- Scientific writing for non experts
- Scientific debate moderation

Paris, October 13, 2022