François Hublet

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Curriculum Vitae

Name	François Hublet
Citizenship	France / EU
Website	https://hblt.eu
Google Scholar	https://scholar.google.ch/citations?user=8k_83BMAAAAJ
ORCID	0000-0001-5419-3125
LinkedIn	https://www.linkedin.com/in/fran%C3%A7ois-hublet-6500a2a2
Interests	Digital Governance, Law & CS, compliance, formal methods, data analysis

Education

2021–2026 **Doctorate, Computer Science**, ETH Zürich, Zurich (CH).
Advised by Prof. Dr. David Basin (Information Security Group).
Funded by SNF grant "Model-driven Security & Privacy" (204796).

2019–2021 **MSc, Computer Science**, ETH Zürich, Zurich (CH).
General computer science track, GPA: 5.8/6.

2016–2020 **MSc, Engineering**, École polytechnique, Palaiseau (FR).

2017–2018 **BA, Classics**, Université Toulouse-II, Toulouse (FR).

2014–2016 **Classes préparatoires**, Lycée Louis-le-Grand, Paris (FR).

Other Professional Experience

2018– **Groupe d'études géopolitiques**, remote: Pro bono editor, data analyst, team lead.
Led the Electoral Bulletins of the European Union project (2021–).
Wrote 170+ analytic pieces for Le Grand Continent (2018–).
Electoral data expert for ARTE's 2024 Election night.

2020 **Göteborgs Universitet**, Gothenburg (SE): Research intern (Prof. Dr. Aarne Ranta).

2018 **European Central Bank**, Frankfurt am Main (DE): Data intern.

2016–2017 **French Interior Ministry**, Paris (FR): Software engineer and project assistant.

Awards

2025 Fred Burggraf Award for Outstanding Paper in Data, Planning, and Analysis (Transportation Research Board), for *Where the Borders Lie: Mapping Cross-Border Communities in 10 Western European Countries* (with A. Sallard).

2021 ETH Medal for Outstanding Master's Thesis, for *The Databank Model*.

Publications

Books

1. F. Hublet. *Formal Compliance by Design*. Springer, 2027, forthcoming.

Theses

1. F. Hublet. *Rigorous and Automated Privacy by Design.* PhD thesis, ETH Zürich, 2026.
2. F. Hublet. *The Databank Model.* Master's thesis, 2021.

Conference Papers (peer-reviewed)

1. F. Hublet, V. Krsmanović, J. Solano, A. Bouhoula, and A. Oliveira da Costa. *TL;QR: Querying Temporal Discursive Patterns in Textual Corpora.* Conference of the European Chapter of the Association for Computational Linguistics (EACL), 2027.
2. F. Hublet, J. Merane, J. Degelo, W.-E. Hsieh, S. Krstić, and D. Basin. *Lex: Turning Laws into Enforceable Security Policies.* ACM Computer and Communications Security Conference (CCS), 2026.
3. D. Galán Pascual, F. Hublet, S. Krstić, R. Fischer, C. Pfingstl, and D. Basin. *A Type System for Optimizing Dynamic IFC.* ACM Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA), 2026.
4. D. Basin, F. Hublet, S. Krstić, and H. Nguyễn. *Mechanizing Privacy by Design.* ACM Computer and Communications Security Conference (CCS), 2025.
5. F. Hublet, D. Basin, L. Hu, S. Krstić, and L. Reese. *Instrumenting Runtime Enforcement.* International Conference on Runtime Verification (RV), 2025.
6. F. Hublet, L. Lima, D. Basin, S. Krstić, and D. Traytel. *Scaling Up Proactive Enforcement.* International Conference on Computer Aided Verification (CAV), 2025.
7. F. Hublet, L. Lima, D. Basin, S. Krstić, and D. Traytel. *Proactive Real-Time First-Order Enforcement.* International Conference on Computer Aided Verification (CAV), 2024.
8. F. Hublet, D. Basin, and S. Krstić. *User-controlled Privacy: Taint, Track, and Control.* Proceedings of Privacy Enforcing Technologies (PoPETS), 2024.
9. F. Hublet, D. Basin, and S. Krstić. *Enforcing the GDPR.* European Symposium on Research in Computer Security (ESORICS), 2023.
10. F. Hublet, D. Basin, and S. Krstić. *Real-time Policy Enforcement with Metric First-Order Temporal Logic.* European Symposium on Research in Computer Security (ESORICS), 2022.

Journal Articles (peer-reviewed)

1. F. Hublet. *BLUE_EP: A Dataset of Municipality-Level Results of European Parliament Elections.* European Political Science, 2026.
2. F. Hublet and M. Lanoë. *A Tale of Three Cleavages.* Revue française de science politique, 2(75), 2025.
3. A. Sallard and F. Hublet. *Where the Borders Lie: Mapping Cross-Border Communities in 10 Western European Countries.* Transportation Research Record, 2679(1), 2024.
4. F. Hublet. *IDL-PMCFG, a Grammar Formalism for Describing Free Word Order Languages.* Journal of Logic, Language and Information, 2022.

Workshop Papers (peer-reviewed)

1. F. Hublet, A. Kvamme, and S. Krstić. *Towards an Enforceable GDPR Specification.* Mapping and Governing the Online World Workshop (MGOW), 2024.

Other Papers

1. F. Hublet, D. Basin, and S. Krstić. *Practical Runtime Enforcement of First-Order Temporal Requirements.* 2026.
2. F. Hublet, D. Nevatia, and J. Schneider. *Policy Change for Treelike Monitors.* 2026.

Teaching

Algorithms and Data Structures (2019–2022), Algorithms and Probabilities (2020), Informatik I (2023–2024), Formal Methods and Functional Programming (2022–2026, 3× Head TA)

Supervision

MSc Theses (30 ECTS)

2026 Jiajun J.: *A Development Methodology and Case Study for Lex*
Valentine T.: *Enforcing a Comprehensive GDPR Specification*
2025 Roman F. (with Daniel Galán, Dr. Srđan Krstić): *Security Type Annotations for Hybrid IFC*
Colin P. (with Daniel Galán, Dr. Srđan Krstić): *Program Transformer for Hybrid IFC*
Jonas D. (with Dr. Jakob Merane): *Refinement of Legal Specifications in the Lex Language*
Loïc B. (with Ahmed Bouhoula): *GDPR: Mapping Legal Requirements, Threats and Remedies*
Rolando G. (with Ahmed Bouhoula): *AutoLex: Automated Legal Formalization with LLMs*
David S. (with Mihael Liskij): *PAMM – Privacy-Aware Mass Mailing*
Andrew L. (with Linard Arquint): *A Temporal Program Logic for Data Protection*
2024 Alexander K.: *Bridging Logics: Transforming Formalizations of GDPR into MFOTL*
2022 Simon Y. (with Joshua Schneider): *Policy Change in MonPoly*
Arduin B.: *Policy Collection for TTC*

BSc Theses (15 ECTS) and Semester Projects (8–12 ECTS)

2026 David S. (with Dr. Jakob Merane): *LexBots*
Wei-En H., *A FUSE-based GDPR-Compliant File System*
2024 Linda H. (with Dr. Srđan Krstić): *Proactive Real-time Enforcement with WhyEnf*
Jonas D. (with Jakob Merane): *A Language for Enforceable Legal Specifications*
2022 Jonas D.: *A Real-Time, Flexible Logging and Monitoring Infrastructure for MonPoly*
Remo Z. (with Dr. Srđan Krstić): *Monitoring Complex Data Types*
Matthias B.: *Formal Verification of the Databank Model Language in Isabelle/HOL*
Arduin B.: *An Extended Policy Language for the Databank*

Languages

Main working languages: English, German, French, Italian. **Professional competence:** Latin. **Upper intermediate:** Spanish, Swedish. **Lower intermediate:** Bosnian-Croatian-Montenegrin-Serbian, Dutch. **Basic:** Romanian, Ancient Greek, Corsican, Icelandic, Romansh, Russian.

Service

Program committee member for International Conference on Legal Knowledge and Information Systems (JURIX).

External reviewer/subreviewer for Certified Programs and Proofs (CPP), International Conference on Computer Aided Verification (CAV), International Conference on Legal Knowledge and Information Systems (JURIX), International Conference on Runtime Verification (RV), Knowledge and Information Systems (KAIS), Scientific Reports (Sci. Rep.), Transactions on Dependable and Secure Computing (TDSC).

Recent invited talks at the University of Copenhagen (Prof. Dr. Dmitriy Traytel, 2025), Max Planck Institute for Behavioral Economics in Bonn (Prof. Dr. Christoph Engel, 2025, with Dr. Jakob Merane), Yale University (Prof. Dr. Ružica Piskač / Prof. Dr. Scott Shapiro, 2026).

Non-scientific Writing

Pieces for *Le Monde*, *La Croix*, *L'Opinion* (French), *Il Mulino* (Italian), *VoxEurop* (German).