

GIOVANNI CAMURATI

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<https://giocamurati.github.io/>

KEY STRENGTHS

- Curious, proactive, and reliable. Patient, and considerate.
- All-round multi-year experience in wireless security research.
- Runner-up Ph.D. Award from GDR Sécurité Informatique.

EXPERIENCE

- ETH Zurich - Postdoctoral Researcher (2021-ongoing)
 - Led advanced research in wireless security resulting in top-tier publications.
 - Program committee member for top-tier venues (IEEE SP, ACM CCS, ACM WiSec).
 - Guidance and supervision of students, and teaching.
 - Procurement of high-end electronic/radio equipment.
- Arm - Internship (July-December 2016)

EDUCATION

- EURECOM and Sorbonne Université - Ph.D. (2017-2020)
- Télécom-ParisTech - Diplôme d'Ingénieur (2017)
- Politecnico di Torino - MS, *cum laude*, Electronic Engineering (2017)

MAIN RESEARCH AREAS and SKILLS

- Wireless communications security (e.g., secure ranging/positioning, side/covert channels).
- Computer science and programming (e.g., C/C++, Python, Matlab, GnuRadio).
- Electronics and digital design (e.g., VHDL, Verilog, SDRs, laboratory equipment).

SELECTED PUBLICATIONS

- D. Coppola, G. Camurati, C. Anliker, X. Hofmeier, P. Shaller, D. Basin, S. Capkun, "*PURE: Payments with UWB RELay-protection*", USENIX Security 2024.
- P. Leu, G. Camurati, A. Heinrich, M. Roeschlin, C. Anliker, M. Hollick, S. Capkun, J. Classen, "*Ghost Peak: Practical Distance Reduction Attacks Against HRP UWB Ranging*", USENIX Security 2022.
- G. Camurati, A. Francillon, "*Noise-SDR: Arbitrary Modulation of Electromagnetic Noise from Unprivileged Software and Its Impact on Emission Security*", IEEE SP 2022.
- G. Camurati, S. Poeplau, M. Muench, T. Hayes, A. Francillon, "*Screaming Channels: When Electromagnetic Side Channels Meet Radio Transceivers*", ACM CCS 2018.

SELECTED COVERAGE and TALKS

- LE MONDE, Les très indiscretes puces des objets connectés (2018/07/25).
- The Register, Boffins: Mixed-signal silicon can SCREAM your secrets to all (2018/07/27).
- Screaming Channels, Black Hat USA 2018 (50-Minute Briefings, G. Camurati, M. Muench).

LANGUAGES

- Italian, English, French, currently learning Mandarin.