

Robinson Dinh Huy Cung

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EDUCATION

- EPFL - MSc in Communications Systems, Specialization in Theoretical Computer Science September 2023 - now
 - GPA: 5.65. Relevant coursework: Advanced Probability, Information Theory and Coding, Models and Methods in Random Networks, Statistical Signal Processing, Advanced Algorithms, Computational Complexity, Modern Digital Communications.
- EPFL - BSc in Communications Systems September 2020 - July 2023
 - Foundation year exam GPA: 5.03, bachelor cycle GPA: 5.42. Relevant coursework: Principles of Digital Communication, Stochastic Models in Communications, Signal Processing, Theory of Computation, Metric and Topological Spaces, Combinatorial Number Theory, Algorithms.

INDUSTRY RESEARCH EXPERIENCE

- Huawei Paris Research Center - MAS September 2025 - March 2026
 - Research engineer at the Mathematical and Algorithmic Science Lab., headed by Prof. Jean-Claude Belfiore.
 - Worked on agentic communication.

ACADEMIC RESEARCH EXPERIENCE

- EPFL - MIL September 2023 - July 2025
 - Research assistant in the context of the IC Research Scholar program, at the Mathematics of Information Laboratory (MIL), under the supervision of Prof. Yanina Shkel.
 - Worked on maximal leakage.
 - Co-published and presented a paper about binary maximal leakage for ISIT 2024 [1].
- EPFL - LTHI September 2024 - July 2025
 - Multiple research projects at the Information Theory Laboratory (LTHI), under the supervision of Prof. Emre Telatar.
 - Worked on distributed hypothesis testing.
- EPFL - LINX February 2023 - September 2023
 - Research assistant during third year of bachelor, at the Laboratory for Information in Networked Systems (LINX), under the supervision of Prof. Yanina Shkel and Prof. Ibrahim Issa.
 - Worked on maximal leakage.
- EPFL - CHILI July 2022 - January 2023
 - Summer intern and then research assistant during second year of bachelor, at the Computer-Human Interaction in Learning and Instruction (CHILI) laboratory, under the supervision of Prof. Richard Davis.
 - Developed StaticsVR, a Unity VR application designed to teach statics and construction physics to carpentry students, in the context of the Dual-T project.

OTHER EXPERIENCE

- EPFL - Class Representative September 2023 - July 2025
 - Class representative for the Communication Systems MSc students.
- EPFL - Student Assistant September 2021 - July 2023
 - Student assistant for various bachelor-level classes: Linear Algebra (MATH-111), Analysis III (MATH-203), Theory of Computation (CS-251).
- EPFL - Student Mentor September 2021 - February 2022
 - Student mentor for first-year students.

PROJECTS

- MSc optional research project at LTHI, 8 ECTS February 2025 - July 2025
 - Worked on optimal one-way schemes for distributed hypothesis testing in the doubly symmetric binary source setup, under the supervision of Prof. Emre Telatar.
- MSc semester project at LTHI, 12 ECTS February 2024 - July 2024
 - Studied literature regarding the method of types and its applications to standard information theory problems, under the supervision of Prof. Emre Telatar.
 - Worked on the efficiency of two way schemes for distributed hypothesis testing.
- BSc semester project at LINX, 8 ECTS September 2022 - February 2023
 - Studied literature regarding minimax rates of entropy estimation, under the supervision of Prof. Yanina Shkel.
 - Implemented Python simulations of various estimators.

PUBLICATIONS

Conference proceedings.

- [1] R. D. H. Cung, Y. Y. Shkel and I. Issa, "Binary Maximal Leakage", 2024 IEEE International Symposium on Information Theory (ISIT), Athens, Greece, 2024, pp. 2748-2753, doi: 10.1109/ISIT57864.2024.10619387.

Under review.

- [2] A. Girish, R. D. H. Cung, Emre Telatar, "On the suboptimality of linear codes for binary distributed hypothesis testing", 2026
- [3] I. Issa, Y. Y. Shkel, R. D. H. Cung, "Adaptive Composition Theorems: Degeneracy Conditions and Leakage Growth", 2026

HONORS AND AWARDS

- **Research Scholarship, EPFL IC** 2023-2025
 - Earned a research scholarship from EPFL IC to work in the Mathematics of Infomation Laboratory.
- **IC School Teaching Assistant Award, EPFL IC** 2023
 - Nominated by Prof. Mika Göös for the Theory of Computation course.

ADDITIONAL INFORMATION

Languages: French (C2), English (C2), German (B1).