Antonio Sasaki

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Education

2024 – now	Ph.D.	Optimization	*Université Paris Sciences et Lettres*	Mines Paris	France
2022 – 2024	Eng.[1]	Statistics	*Institut Polytechnique de Paris*	ENSAE Paris	France
2019 – 2024	B.Sc.	Mathematics	*Universidade Federal do Rio de Janeiro*	n/a	Brazil

Papers/preprints (3)

2027

Sasaki, A., Demassey, S., and Sessa, V. (2027). Localization of complementarity eigenvalues. *Communications in Optimization Theory*, 2027(10):1–15. Access here

2026

Sasaki, A., Demassey, S., and Sessa, V. (2026a). Spectral-gauge cuts for semidefinite programming. *arXiv preprint*. Access here

2025

Merikoski, J. K., Haukkanen, P., Sasaki, A., and Tossavainen, T. (2025). On generalized eigenvalues of MAX matrices to MIN matrices and LCM matrices to GCD matrices. *Journal of Integer Sequences*, 28(7):1–11. Article 25.7.1. Access here

Talks/posters (4)

2026

Sasaki, A., Demassey, S., and Sessa, V. (2026b). Symmetric gauge theory for cutting-plane methods in semidefinite programming. In *Optimization 2026*, Lisbon, Portugal

Sasaki, A., Sessa, V., and Demassey, S. (2026c). Spectral-gauge cuts for semidefinite programming. In *Journées SMAI-MODE*, Nice, France. hal: 05691125

2025

Sasaki, A., Siqueira, J., and Arbieto, A. (2025b). Kac's lemma for Furstenberg recurrences. In *44th Congress of Applied and Computational Mathematics*, Rio de Janeiro, Brazil. hal: 05691156

Sasaki, A., Demassey, S., and Sessa, V. (2025a). On computational evaluation of lower bounds for the fractional quadratic program over the standard simplex. In *16th Global Optimization Workshop*, Stockholm, Sweden. hal: 05694898

Grants/awards

2026	PGMO funding	Jacques Hadamard Mathematical Foundation	France
2025	Beatriz Neves Prize	Brazilian Society of Computational and Applied Mathematics	Brazil
2022	Eiffel Scholarship	Campus France / Ministry for Europe and Foreign Affairs	France
2021	FAPERJ funding	Foundation for Research Support of the State of Rio de Janeiro	Brazil

[1] The French engineering degree is recognized as a master's degree.