

To the Faculty of Graduate Studies of York University:

My name is Konstantinos Konstantos, and I am a Ph.D. candidate in the Department of Mathematics at York University. I am working under the supervision of Professors Pavlos Motakis and Paul Skoufranis.

I am writing to provide a formal statement clarifying the role of joint work, authorship contributions, and the use of previously published or submitted material in my PhD thesis.

Chapters 3, 4, 5, and 6 of this thesis are based on joint work with Pavlos Motakis, which appears in [2], while Chapters 3, 5, 7, 8, 9, and 10 are based on joint work with Pavlos Motakis appearing in [1]. In particular, the material presented in Chapters 3 and 5 appears in both works.

The work [2] has been published in the *Journal of Functional Analysis*, whereas [1] is currently under review in an international peer-reviewed journal and is available as a preprint.

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The material has been adapted, revised, and reorganized in order to ensure a coherent exposition and a unified presentation within the structure of the thesis. In particular, overlap between the two sources has been carefully integrated so as to avoid redundancy while preserving mathematical consistency and completeness.

The research was carried out in collaboration with Pavlos Motakis, under his academic guidance. The overall research direction, main problems, and central ideas were developed under the supervision of Pavlos Motakis. I carried out substantial portions of the technical implementation, including the development of proofs and mathematical details. I was also the primary writer of the underlying research papers, with editorial and mathematical feedback provided by my supervisor in the usual course of supervision and collaboration.

I confirm that the thesis document itself has been written and prepared by me. All collaborative contributions and previously published or submitted material have been appropriately acknowledged throughout the thesis.

Yours faithfully,

A handwritten signature in black ink, consisting of stylized, overlapping letters that appear to be 'KK' followed by a flourish.

May 19, 2026

Konstantinos Konstantos

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References

- [1] K. Konstantos and P. Motakis. Coordinate systems and distributional embeddings in bourgain-rosenthal-schechtman spaces: a framework for operator reduction, 2025.
- [2] K. Konstantos and P. Motakis. Orthogonal factors of operators on the Rosenthal $X_{p,w}$ spaces and the Bourgain-Rosenthal-Schechtman R_ω^p space. *Journal of Functional Analysis*, 288(5):110802, 2025.