

July 8, 2019

To the Hiring Committee:

My name is Fosco LOREGIAN. I was awarded my Ph.D. from SISSA (Trieste, Italy) in June 2016.

I spent a few months as a postdoc at the University of Western Ontario (London ON, Canada), and then moved to Masaryk University (Brno, CZ) working in the group of prof. Jiří Rosický. I am now a postdoc in Bonn's Max Planck Institute for Mathematics.

Until now, my research revisited some aspects of the theory of triangulated categories and stable homotopy from the perspective of higher-dimensional category theory and formal category theory; I worked under the supervision of prof. Domenico Fiorenza (Rome, IT), and focused on the theory of factorization systems on $(\infty, 1)$ -categories. I am interested in the foundations of homotopy theory, (higher and lower dimensional) category theory, categorical logic, algebraic topology, and its applications.

I have recently moved to a purely 2-categorical point of view on stable homotopy theory, extensively studying *Grothendieck derivators*; this led me to a deeper understanding of the 2-category they form and developed an already deep interest in formal category theory and 2-dimensional algebra; this is testified by a shift of my publication track towards purely 2-categorical problems.

The present cover letter accompanies an extended *curriculum vitae*, a research statement, and three contacts to provide the needed reference letters:

- Domenico FIORENZA (fiorenza@mat.uniroma1.it - Università di Roma "La Sapienza"), my PhD advisor.
- Jiří ROSICKÝ (rosicky@math.muni.cz - Masaryk University).
- Emily RIEHL (eriehl@math.jhu.edu) John Hopkins University, Maryland USA.

I remain at your disposal for any further communication or clarification.

Thank you in advance for your consideration.

Best regards,

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