

Marco Fraccaroli

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Personal data

Date of birth: 26 July 1992
Nationality: Italian
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Education

Ph.D. in Mathematics (in progress)
Universität Bonn, April 2017 - (expected) March 2022
Supervisor: Prof. Dr. Christoph Thiele
Thesis: *Topics in the theory of L^p spaces for outer measures.*

Master's Degree in Mathematics
Universität Bonn, October 2014 - March 2017
Supervisor: Prof. Dr. Christoph Thiele
Thesis: *On distributions with $GL_2(\mathbb{R})$ dilation symmetry.*

Bachelor's Degree in Mathematics
Università degli Studi di Padova, October 2011 - September 2014
Supervisor: Prof. Dr. Roberto Monti
Thesis (*in Italian*): *L'equazione di Yamabe: analisi e soluzioni attraverso il Metodo delle Sfere Mobili e il Principio del Massimo.*

Scholarships and grants

SFB1060 position
April 2017 - March 2022

BIGS Qualifying Scholarship
October 2014 - September 2016

INdAM Scholarship for undergraduate studies in Mathematics
October 2011 - September 2014

Publications and preprints

Marco Fraccaroli, *Duality for outer $L^p_\mu(\ell^r)$ spaces and relation to tent spaces*
in J. Fourier Anal. Appl. **27**, 67 (2021). DOI: 10.1007/s00041-021-09869-4

arXiv preprint: <http://arxiv.org/abs/2001.05903>

Marco Fraccaroli, *Duality for double iterated outer L^p spaces*
(submitted, April 2021).

arXiv preprint: <http://arxiv.org/abs/2104.09472>

Marco Fraccaroli, *Uniform Fourier restriction for convex curves*
(submitted, November 2021).

arXiv preprint: <https://arxiv.org/abs/2111.06874>

Articles in preparation

Marco Fraccaroli and Gennady Uraltsev, *Boundedness of multilinear forms associated with determinantal multipliers.*

Marco Fraccaroli, Olli Saari, and Christoph Thiele, *A uniform phase-plane projection.*

Research talks

Outer L^p spaces: Köthe duality, Minkowski inequality and more,
International Prague seminar on function spaces, 9 December 2021 (upcoming)

Outer L^p spaces: Köthe duality, Minkowski inequality and more,
Universität Bonn, Bonn, Germany
Graduate Seminar on Advanced Topics in PDE, 19 November 2021 (upcoming)

Outer L^p spaces, dyadic tents and dyadic trees,
Università degli Studi di Padova, Padova, Italy
Workshop Complex and Harmonic Analysis in Padova, 30 October 2021

Duality for outer L^p spaces,
Bilbao APDE Webinar, 21 October 2021

Duality for outer L^p spaces,
Harmonic Analysis e-Seminars, 19 May 2021

Duality for outer L^p spaces and relation to tent spaces,
Cornell University, Ithaca NY, United States of America
Analysis Seminar, 9 March 2020

Reverse Hölder inequality for outer L^p spaces,
Universität Bonn, Bonn, Germany
Graduate Seminar on Advanced Topics in PDE, 22 November 2019

On distributions with full $GL_2(\mathbb{R})$ dilation symmetry and more,
Laboratoire Jean Leray, Nantes, France
Atelier d'Analyse Harmonique, 6 March 2017

Posters

Duality for outer L^p spaces and relation to tent spaces,
Železná Ruda, Czech Republic
Conference LUBOŠ 60, September 2021

On distributions with $GL_2(\mathbb{R})$ dilation symmetry,
MSRI, Berkeley CA, United States of America
Recent Developments in Harmonic Analysis, May 2017

On distributions with full $GL_2(\mathbb{R})$ dilation symmetry.,
Universität Bonn, Bonn, Germany
Young Women in Harmonic Analysis and PDE, December 2016

Teaching and tutoring

Tutoring

V4B5 - Real and Harmonic Analysis
Universität Bonn, Summer Term 2018
Instructor: PD Dr. Pavel Zorin-Kranich.

Lecture notes (with J.P.G. Ramos)

V4B5 - Real and Harmonic Analysis
Universität Bonn, Winter Term 2016/17
Instructor: Prof. Dr. Christoph Thiele.

Seminars coorganized

Graduate seminar on Advanced topics in PDE

Universität Bonn, Summer Term 2021

Summer schools

Summer School on Brascamp-Lieb inequalities,
Kopp, Germany, October 2021

Summer School on Sphere Packings and Optimal Configurations,
Kopp, Germany, October 2019

Summer School on Unique Continuation and Inverse Problems,
Kopp, Germany, September 2018

Summer School on Decoupling and Polynomial Methods in Analysis,
Kopp, Germany, September 2017

Summer School on Paraproducts and Analysis of Rough Paths,
Kopp, Germany, September 2016

*Summer School for INdAM scholarship holders,
Perugia, Italy, September 2013*

*Summer School for INdAM scholarship holders,
Perugia, Italy, September 2012*

Languages

Italian: Native

English: Fluent

German: Intermediate

References

Prof. Dr. Christoph Thiele

Ph.D. supervisor

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Prof. Dr. Alexander Volberg

Academic reference

Michigan State University, Department of Mathematics, 619 Red Cedar Road, C212 Wells Hall, East Lansing, MI 48824

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Prof. Dr. Herbert Koch

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Prof. Dr. Vjekoslav Kovač

Academic reference

University of Zagreb, Department of Mathematics, Bijenička cesta 30, 10000 Zagreb, Croatia

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PD Dr. Pavel Zorin-Kranich

Teaching reference

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