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Dimitri Wyss

Education and Employment

Since 2019	**Tenure track assistant professor**, *EPF Lausanne*
2018 - 2019	**Postdoctoral position**, *with François Loeser*, Paris 6
2017 - 2018	**Postdoctoral fellow of the Fondation Sciences Mathématiques de Paris**, *with François Loeser*, Paris 6
2013 - 2017	**Ph.D thesis in Algebraic Geometry**, *under the direction of Tamás Hausel*, EPF Lausanne and IST Austria
2012 - 2013	**Master thesis**, *under the direction of Aravind Asok and Brent Doran*, USC Los Angeles
2011 - 2012	**Master in Mathematics**, *ETH Zurich*
2008 - 2011	**Bachelor in Mathematics**, *ETH Zurich*

Works

2023	**A motivic Fundamental Lemma (with A. Forey and F. Loeser)**, *arXiv:1912.11638*
2021	**BPS-invariants from p-adic integrals (with F. Carocci and G. Orecchia)**, *arXiv: 2112.12103*, To appear in Compositio Mathematica
2019	**Motivic integration on the Hitchin fibration (with François Loeser)**, *Algebraic Geometry, arXiv:1912.11638*, 2021. vol 8, no 2, p. 196-230
2018	**Geometric stabilization via p-adic integration (with Michael Groechening and Paul Ziegler)**, *Journal of the AMS*, 2020, vol. 33, no 3, p. 807-873.
	Arithmetic and metric aspects of open de Rham spaces (with Tamás Hausel and Michael Wong), *Proceedings of the LMS*, 2023, 127(4), 958-1027
2017	**Motivic and p-adic localization phenomena**, *Thesis*, arXiv:1709.06769
	Mirror symmetry for moduli spaces of Higgs bundles via p-adic integration (with Michael Groechening and Paul Ziegler), *Inventiones Mathematicae*, 2020, vol. 221, no 2, p. 505-596.
2016	**Motivic classes of Nakajima quiver varieties**, *International Mathematics Research Notices*, 2016, vol. 2017, no 22, p. 6961–6976

Conferences and other scientific acitvties

2024	**Alpine Algebraic Geometry Workshop**, *Universitatszentrum Obergurgl*
	New equivariant methods in algebraic and differential geometry, *Newton Institute*, Cambridge
	Model theory of valued fields and applications, *Université de Lille*
	Enumerative geometry of the Hilbert scheme of points, *SRS Research Station*, Les Diablerets
2023	**Categorified enumerate geometry and representation theory**, *Bernoulli Center*, Lausanne
2022	**Workshop in Arithmetic Geometry**, *Rome*
	Mirrors, Moduli and M-Theory in the Midlands, *LMS-Meeting*, Birmingham
	Hodge and Ponicaré polynomials of moduli spaces of bundles, *Goethe University*, Frankfurt

Summer school on non-abelian Hodge theory, *Saint-Jacut de la mer*

Summer school on motivic integration, *Heinrich Heine University*, Düsseldorf

2021 **Cohomology of moduli spaces of flat connections**, *SwissMAP research station*, Les Diablerets

Workshop Non-Archimedean and Tropical Geometry, *Goethe University Frankfurt / École Polytechnique*

2020 **Quiver varieties, character varieties and DT-invariants**, *Institut Henri Poincaré*, Paris

2019 **L-functions and Geometric Representation Theory**, *Nisyros*

Moduli Spaces, Representation Theory and Quantization, *Research Institute for Mathematical Sciences*, Kyoto University

Geometric representation theory, topological field theory, and low-dimensional topology, *International Centre for Mathematical Sciences*, Edinburgh

Geometry and Physics of Hitchin Systems, *Simons Center for Geometry and Physics*, Stony Brook University

2018 **Arithmetic Geometry and de Rham Theory**, *Vietnam Academy of Science and Technology*, Hanoi

Mini-School on p-adic and motivic integration, *University of Geneva*

Conférence en l'honneur de François Loeser, *Banyuls-sur-Mer*

Conference on Model Theory and Applications, *Institut Henri Poincaré*, Paris

Workshop on Riemann-Hilbert correspondences, *University of Padova*

2017 **SWAGP 2017**, *SISSA*, Trieste

2016 **Research in pairs**, *with Michael Groechening and Paul Ziegler*, MFO, Oberwolfach

Workshop on Hall algebras, enumerative invariants and gauge theories, *Fields Institute*, Toronto

Enumerative geometry of moduli spaces of sheaves in low dimension, *EPFL*, Lausanne

2015 **Young researchers in singularities**, *CIRM*, Marseille

2014 **Workshop on motivic integration, orbital integrals and zeta-functions**, *International research station*, Banff

Géométrie algébrique en liberté XXII, *SISSA*, Trieste

Grants and Awards

2025-2029 **SNF Starting Grant 'Non-archimedean methods in geometry and topology' (1'300K)**

2021-2025 **SNF Project Grant 'Arithmetic aspects of moduli spaces on curves' (700K)**

2018 **EPFL Prize in Mathematics**, *for outstanding thesis*

2017 **Postdoctoral Laureat of the Fondation Sciences Mathématiques de Paris**

2014 **Willi Studer Prize**, *for best Masters degree*, ETHZ

2008 **Honourable mention at the International Mathematical Olympiad (IMO)**

2008 **Winner of the Swiss Mathematical Olympiad (SMO)**

Extracurricular activities

2023 **Coorganizer of the Bernoulli Math Competition**, *EPFL*

Speaker at the National Math Olympiad Day, *ETHZ*

2021 **Coordinator for the Franch-speaking math olympiad (online)**

2016 - 2017 **Head of the problem selection committee for the European girls mathematical olympiad 2017**

2013 - 2016 **President of the SMO**

2012 **Main organizer of the middle European mathematical olympiad**

2008 - 2013   **Organization and problem selection for the SMO**
2007-2008   **Member of the Swiss team for the IMO**