

Benjamin Fuks

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Nationality: *Belgian*

Birthdate: January 3rd 1982 (42 y.o.)

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SCIENTIFIC PATH - ACADEMIC EXPERIENCE

Since 2015 Full professor ([Physics Department, Sorbonne Université; LPTHE](#))
2008 – 2015 Associate professor ([Physics and Engineering Department, Strasbourg U.; DRS, IPHC](#))
2007 – 2008 Postdoctoral research associate ([Elementary Particle Phenomenology group, Freiburg U.](#))

EDUCATION

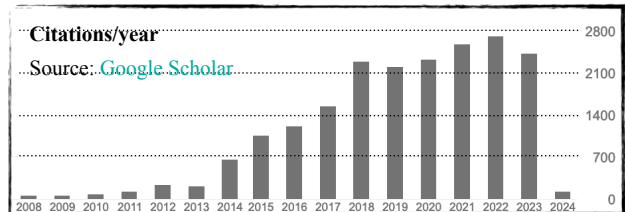
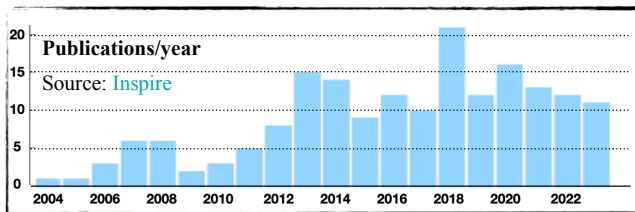
2013 Habilitation in Theoretical Particle Physics (Strasbourg U.)
2004 – 2007 PhD. in Particle Physics (Joseph Fourier University)

RESEARCH INTERESTS

My research interests span perturbative QCD, beyond the Standard Model phenomenology, LHC physics, dark matter and the development of computing tools for high-energy physics.

SCIENTIFIC ACTIVITIES

- 2 books on [supersymmetry](#) (2011) and [quantum mechanics](#) (2017)
- 166 scientific publications ([Google Scholar](#): 20000+ citations, h=54; [Inspire](#): 17000+ citations, h=52)
- 118 publications in peer-reviewed journals ([Inspire](#): 13500+ citations, h=46)
- 47 contributions to conference proceedings
- 2 CMS Physics Analysis Summaries (public analysis notes of the CMS collaboration)
- 1 publication in a scientific popularisation journal
- 211 participations (149 with a presentation and 62 without) to workshops and conferences
- 69 invited seminars in high-energy physics institutes; 31 invited lectures at international events
- 56 supervised students (7 PhD, 32 master, 13 bachelor); 4 supervised postdoctoral fellows



TEACHING ACTIVITIES

As a faculty in France, I have been dedicating 192 hours/year (64 hours/year in 2016 – 2021 as a member of the [Institut Universitaire de France](#)) to teaching. I have taught at the bachelor, master and postgraduate levels in physics, mathematics and numerical methods. I am regularly invited to lecture at international postgraduate schools. I have managed in 2015 – 2021 the 2nd year of the bachelor studies in physics at Sorbonne Université (350 students), and I am deputy director of the department of the bachelor studies in physics at Sorbonne Université since 2021 (750 students).

CURRENT INSTITUTIONAL RESPONSIBILITIES

Since 2024 Director of the Research Federation 'Fundamental Interactions' (FRIF)
Since 2022 Invited member of the Physics Teaching Council (Sorbonne U., France)
Since 2021 Deputy director of the department of the bachelor studies in physics (Sorbonne U., France)
Since 2018 Elected member of the council of the Physics Department (Sorbonne U., France)

AWARDS

- National Award for Scientific Excellence (2011 – 2015, 2016 – 2021 and 2021 – 2025, [link](#))
- Outstanding Referee of the American Physical Society (2022, [link](#))
- Junior member of the [Institut Universitaire de France](#) (2016 – 2021)
- Award for scientific excellence *Les Espoirs de l'Université de Strasbourg* (2015, [link](#))

GRANTS

Since 2024 PI of a France-Korea [Star project](#) (to be assigned)
Since 2024 PI of a France-Slovenia [Proteus project](#) (to be assigned)
Since 2022 LPTHE coordinator of the [ANR project DMwithLLPatLHC](#) (208 kEUR)
Since 2016 PI of a France-Korea [FKPPL project](#) (2 – 4 kEUR / year)
2023 CNRS AMORCE grant to build a European network (9.5 kEUR)
2022 – 2023 PI of a France-Belgium [Tournesol project](#) (1.2 kEUR / year)
2019 PI of a France-China [FCPPL project](#) (1.5 kEUR)
2016 – 2021 Junior member of the [Institut Universitaire de France](#) (75 kEUR)
2014 – 2017 PI of a joint [France-Germany PICS project of the CNRS](#) (7 kEUR)
2015 – 2016 PI of the CNRS Inphyniti challenge *Theory-LHC France* (37 kEUR, [link1](#), [link2](#))

COMMISSIONS OF TRUST

2021 – 2023 Member of the *FWO Review College* (Belgium)
Full professorship hiring committees: Sorbonne U. (2020), Lyon U. (2023)
Maître de conférences (associate prof.) hiring committees: Montpellier (2014), Annecy (2024)
Member of 24 PhD, 5 habilitation and several master and bachelor thesis juries
Referee for EPJC, JHEP, LHEP, PLB, PRD, PRL, IJMPA, MPLA, J. Phys. G, EPJST and AHEP
Evaluator for ANR (France), ENS-CDSN (France), IRGA (France), DFG (Germany), ERC (Europe), FWO (Belgium), HRI (India), IIIT Hyderabad (India), MSCA (Europe), MUIR (Italy), NCN (Poland), NRF (South Africa), Royal Society (UK), STFC (UK).

PAST INSTITUTIONAL RESPONSIBILITIES

2022 – 2023 Member of the Paris-Ile-de-France graduate school (EDPIF) panel (Paris, France)
2017 – 2022 Member of the management committee of the European COST network PARTICLEFACE
2015 – 2021 Head of studies, Physics Bachelor 2 (Physics Department, Sorbonne U., France)
2014 – 2021 Member of the French National Committee for Scientific Research (CoNRS) section 02
2012 – 2016 Member of the Theoretical Particle Physics French office (secretary in 2014 – 2016)
2013 – 2016 Head of the *Théorie LHC France* initiative of the CNRS
2008 – 2015 Organiser of internal seminars, IPHC Strasbourg, France

ORGANISATION OF SCIENTIFIC MEETINGS (LAST 5 YEARS)

- Organiser or co-organiser of the following national and international conferences and workshops
 - ➔ 2024 : 17th International Workshop on Top Quark Physics, St-Malo, France (local org. committee)
 - ➔ 2024 : [Top LHC France 2024](#), Paris, France (organiser)
 - ➔ 2024 : ML4Jets 2024, Paris, France (local org. committee)
 - ➔ 2022 : [QCD@LHC 2022](#), Orsay, France (parallel session convener)
 - ➔ 2022 : [Planck 2022](#), Paris, France (parallel session convener)
 - ➔ 2020 : [Second MadAnalysis5 workshop on LHC recasting](#), KIAS, Corée (chair)
 - ➔ 2013–2016, 2019–2020: *Tools* working group, [Les Houches Workshops on Physics at TeV Colliders](#)
 - ➔ 2019: [Workshop on fundamental composite dynamics](#), MITP Mainz, Germany (organiser)
 - ➔ 2019: [Workshop on the QED corrections to \(semi-\)leptonic B decays](#), Paris, France (organiser)
 - ➔ 2011–2018: *Tools & Methods* working group convener, [French Terascale](#) network (national network)
- Member of the advisory committee of the following workshops and meetings:
 - ➔ Since 2019: [INFN Frascati Spring School Bruno Touschek](#)
 - ➔ Since 2018: [Les Houches Workshops on Physics at TeV Colliders](#)
 - ➔ Since 2015: Member of the scientific advisory board for the *Top LHC France* meetings
 - ➔ 2024 : [Roadmap of Dark Matter models for Run 3](#), CERN (program committee)
 - ➔ 2016–2022: [Forum on the interpretation of the LHC results for BSM studies](#), CERN
 - ➔ 2021: The 9th Annual Large Hadron Collider Physics conference, Paris, France (program committee)

OUTREACH

Since 2016 [Blogging activities](#) on particle physics, astrophysics and cosmology (science popularisation)
Since 2021 Participation to science day events, to scientific events in middle and high schools