

# Benjamin Fuks

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Nationality: *Belgian*

Birthdate: January 3<sup>rd</sup> 1982 (41 y.o.)

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## SCIENTIFIC PATH - ACADEMIC EXPERIENCE

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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

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

## RESEARCH INTERESTS

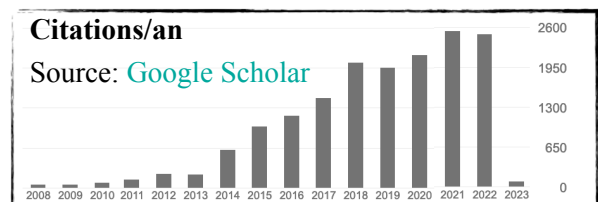
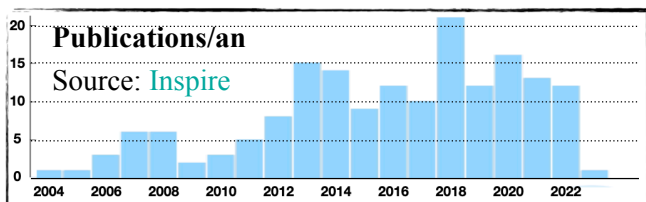
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My research interests span perturbative QCD, beyond the Standard Model phenomenology, LHC physics, dark matter and the development of computing tools for high-energy physics. I am also interested in physics studies aiming to assess the potential of future high-energy physics experiments.

## SCIENTIFIC ACTIVITIES

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- 2 books (Ellipses Market Editions) on [supersymmetry](#) (2011) and [quantum mechanics](#) (2017)
- 164 scientific publications ([Google Scholar](#): 16500+ citations, h=54; [Inspire](#): 15000+ citations, h=49)
- 108 publications in peer-reviewed journals ([Inspire](#): 11500+ citations, h=44)
- 46 contributions to conference proceedings
- 2 CMS Physics Analysis Summaries (public analysis notes of the CMS collaboration)
- 1 publication in a scientific popularisation journal
- 203 participations (142 with a presentation and 61 without) to workshops and conferences
- 66 invited seminars in high-energy physics institutes; 28 invited lectures at international events
- 51 supervised students (7 PhD, 32 master, 12 bachelor); 3 supervised postdoctoral fellows



## TEACHING ACTIVITIES

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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 2<sup>nd</sup> year of the bachelor studies in physics at Sorbonne U. (350 students), and I am vice-dean of the department of the bachelor studies in physics at Sorbonne U. since 2021.

## CURRENT INSTITUTIONAL RESPONSIBILITIES

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Since 2022 Member of the Paris-Ile-de-France graduate school (EDPIF) panel (Paris, France)  
Since 2021 Vice-dean 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

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- 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

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Since 2022 PI of a France-Belgium [Tournesol project](#) (1.2 kEUR / year)  
Since 2022 LPTHE coordinator of the [ANR project DMwithLLPatLHC](#) (208 kEUR)  
Since 2016 PI of a France-Korea [FKPPL project](#) (~2 – 4 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

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Since 2021 Member of the *FWO Review College* (Belgium)  
2020 Member of a *full professorship* hiring committee, Sorbonne Université, France  
2014 Member of a *Maitre de conférences* (associate prof.) hiring committee, Montpellier, France  
Since 2010 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), IRGA (France), DFG (Germany), ERC (Europe), FWO (Belgium), HRI (India), IIIT Hyderabad (India), MUIR (Italy), NCN (Poland), NRF (South Africa), STFC (UK).

## PAST INSTITUTIONAL RESPONSIBILITIES

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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)

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- Organiser or co-organiser of the following national and international conferences and workshops
  - ➔ 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)
  - ➔ 2019: [Workshop on fundamental composite dynamics](#), MITP Mainz, Germany (organiser)
  - ➔ 2019: [Workshop on the QED corrections to \(semi-\)leptonic B decays](#), Paris, France (organiser)
  - ➔ 2018: [Top LHC France 2018](#), Paris, France (organiser)
- Coordinator or convener for the following national and international workshops
  - ➔ 2013–2016, 2019–2020: *Tools* working group, [Les Houches Workshops on Physics at TeV Colliders](#)
  - ➔ 2011–2018: *Tools and Methods* working group, [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 2016: [Forum on the interpretation of the LHC results for BSM studies](#), CERN
  - ➔ Since 2015: Member of the scientific advisory board for the *Top LHC France* meetings
  - ➔ 2021: The 9th Annual Large Hadron Collider Physics conference, Paris, France (program committee)

## OUTREACH

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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