

# Simone Pacetti

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## Current position

2017- *Associate Professor*, Dipartimento di Fisica e Geologia, Perugia (Italy)

## Areas of specialization

Phenomenology and theory of particle physics.

## Education

2001 PhD in Physics, Dipartimento di Fisica, Perugia (Italy)

1997 Master degree in Physics, grade 110/110 cum laude, Dipartimento di Fisica, Perugia (Italy)

## Previous professional and academic appointments

2010-17 *Researcher* (staff), Dipartimento di Fisica e Geologia, Perugia (Italy)

2007-10 "Junior Grant" Centro Enrico Fermi, Roma

2005-07 Research grant (assegno di ricerca) Laboratori Nazionali di Frascati

2002-04 Research grant (assegno di ricerca) Laboratori Nazionali di Frascati and Università di Perugia

1996-97 INFN scholarship for undergraduate students at Laboratori Nazionali di Frascati

## Talks and Publications

Author of **37** invited talks and coauthor of more than **620 papers**.

**Citations Summary generated by <https://inspirehep.net/> on October 18<sup>th</sup> 2018**

717 papers found, 713 of them citeable (published or arXiv)

	Citeable papers	Published only
Number of papers analysed:	762	620
Number of citations:	33373	30753
Citations per paper (average):	43.8	49.6
$h_{\text{HEP}}$ index <sup>1</sup>	89	87

## Memberships

2009- BESIII experiment at IHEP, Beijing.

2005-12 BABAR experiment at SLAC, Stanford.

2005-06 FOCUS experiment at Fermilab, Chicago.

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<sup>1</sup>J. E. Hirsch, Proc. Nat. Acad. Sci. **46** (2005) 16569 doi:10.1073/pnas.0507655102 [physics/0508025].

## Research activity

- Analytic models for  $\alpha_s$  and applications.
- Analytic parameterizations and continuation techniques for baryon electromagnetic form factors and light meson transition form factors.
- Radiative corrections on hadron production processes via electro-positron annihilation.
- Models for proton-proton and proton-antiproton elastic cross section at LHC energies.
- Low-energy hadron spectroscopy.

## Teaching

- 2016- Owner of the course "Dinamica del Modello Standard", "Laurea magistrale in Fisica" at the Department of Physics and Geology, Perugia.
- 2010- Owner of the course "Metodi Matematici per la Fisica", "Laurea triennale in Fisica" at the Department of Physics and Geology, Perugia.

## Outreach Activities

- 2015- "Piano Lauree Scientifiche" (<http://www.progettolaureescientifiche.eu/>), seminars and labs for high-school students.
- 2015 Organizer of the regional project "UNIDEE, Idee per un futuro universitario", orientation for high-school students.
- 2012-16 Seminars of particle physics in high-schools, "The Universe in  $10^{-19}$  meters" and "Light, quick and elusive, Neutrinos".
- 2012-16 Local organiser of the "International Masterclasses - hands on particle physics" (<http://physicsmasterclasses.org/index.php>), lessons and exercises for high-school students.
- 2011-12 Organiser of the exhibit "Estremo - Le macchine della conoscenza" at the "Museo Archeologico Nazionale dell'Umbria", Perugia.

## Conference organisation

- "Baryon Form Factors: Where do we stand?", 668.WE-Heraeus-Seminar, Physikzentrum Bad Honnef, 23-27 April 2018 - Scientific organizer.
- "Scattering and annihilation electromagnetic processes", ECT\* Trento, 18-22 February 2013 - Coordinator.
- "IFAE 2011", Perugia, 27-29 April, 2011 - LOC and editorial board member and convener.
- "LNF Spring School", Frascati, 12-16 May, 2008 - LOC member.
- "PHIPSI08", Frascati, 7-10 April, 2008 - LOC member.
- "Hadron07", Frascati, 8-13 October, 2007 - LOC and editorial board member and convener.

## Languages

French: intermediate.

English: written and spoken.

Italian: mother tongue.