

PERSONAL INFORMATION

Gabriele Croci



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Sex Male | Date of birth 23/01/1983 | Nationality Italian

POSITION

Associate Professor in Applied Physics at the University of Milano – Bicocca, within the “G. Occhialini” Physics Department

Instrument Scientist at the ISIS@MACH ITALIA Research Infrastructure

WORK EXPERIENCE

2019-2022

Researcher

University of Milano – Bicocca

- Development, construction test, calibration, commissioning and exploitation of diagnostics for thermo-controlled nuclear fusion experiments and for spallation neutron sources. Member of RD51 and DRD1 international collaboration for the development of gaseous detectors. Lecturer at advanced university Physics courses. Member of the international collaboration for the development of Milano Ventilatore Meccanico ventilator. Local responsible of international and national projects (ITER-RGRS, Panarea, BEAM4Fusion,...)

2014-2019

Researcher

University of Milano – Bicocca

- Development, construction test, calibration, commissioning and exploitation of diagnostics for thermo-controlled nuclear fusion experiments and for spallation neutron sources. Member of RD51 international collaboration. Lecturer at advanced university Physics courses. Principal Investigator of several experiments at the ISIS spallation source.

2011-2014

Post-Doc Researcher

CNR – Institute of Plasma Physics

- Development, construction test, calibration, commissioning and exploitation of diagnostics for thermo-controlled nuclear fusion experiments and for spallation neutron sources. Participation to several international projects linked to spallation sources and fusion devices.

2011-2014

Ph.D Student

CERN (European Centre for Particle Physics)

- Development of micropattern gaseous detectors for high energy physics applications and beyond. Member of the GDD group at CERN founded by Nobel Prize G. Charpak.

EDUCATION AND TRAINING

2008-2011

Ph.D degree in Physics

University of Siena

- Thesis on “Development and Characterization of Micro-Pattern Gaseous Detectors for HEP applications and beyond” with Dr. L. Ropelewski and Prof. N. Turini.

ACADEMIC ACTIVITY

Publications <https://www.scopus.com/authid/detail.uri?authorId=22937196400>

Conferences & Seminars

- Talk a ISDEIV 2020 Symposium titled “ A GEM-based high-rate x-rays diagnostic for flux measurement during high voltage conditioning in vacuum insulated systems
- Invited talk a MPGD 2019 Conference (La Rochelle, France, 5-9 May 2019) titled “MPGD based neutron detectors”
- Invited talk at International Conference Frontiers in Diagnostic Technologies (Frascati, Italy, 3-5 October 2018) titled “New MPGD Developments”
- Talk a MPGD 2017 Conference (Philadelphia, USA, 22-26 May 2019) titled “MPGD based neutron detectors”
- Talk at ATTRACT TWD Symposium: Trends, Wishes and Dreams in Detection and Imaging Technologies, Barcellona, Spain, 30 June – 1 July 2016 – titled “Fast neutron micro-imaging by 2025?”
- Talk at MPGD 2015 Conference (Trieste, Italy, 12-17 October 2015) – titled “The BAND-GEM detector: An improved efficiency GEM-based solution for thermal neutrons detection at spallation sources”
- Talk at IKON 9 - The Ninth In-Kind Contributions Meeting for Neutron Science for ESS Lund, Sweden, 21-22 September 2015 – titled “BANDGEM”
- Talk XXVI Congresso Annuale della SISN (Società Italiana di Spettroscopia Neutronica), Centro ricerche ENEA Frascati, Italia, 1-4 July 2015 – titled “BANDGEM and bGEM detectors
- Talk at Second Academia-Industry Matching Event Special Workshop on Neutron Detection with MPGDs, CERN 16-17 March 2015 – titled “Recent results of GEM-based thermal neutron detectors”
- Talk at Helium Replacement in Italy - HeRe in Italy, Centro Ricerche Enea-Frascati, Italia 2-3 December, 2013 – titled “Development of GEM-based fast neutron detectors”

Membership

- DRD1 collaboration – since 2023
- Societa' Italiana di Fisica – since 2020
- International center “Piero Caldirola (ICPC)” – since 2021
- RD51 collaboration – since 2010