

# CURRICULUM VITAE

FABIO IOCCO

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## PERSONAL INFORMATION

Born on September 26<sup>th</sup>, 1979, in Naples, Italy.

Italian citizen.

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## JOB HISTORY AND EDUCATION

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| 2019–today | Associate Professor in Theoretical Physics at Università di Napoli “Federico II”, Italy.   |
| 2019       | Research Associate at Imperial College London, United Kingdom.   |
| 2019–today | Associate member at ICTP-SAIFR, São Paulo, Brazil.   |
| 2014–2018  | Junior Professor at ICTP-SAIFR, São Paulo, Brazil.   |
| 2013–2014  | Istituto de Física Teórica, UAM/CSIC, Madrid, Spain. ( <i>Severo-Ochoa</i> fellowship.)  |
| 2011–2013  | Oskar Klein Center for Cosmoparticle Physics, Stockholm, Sweden. ( <i>Wenner-Gren</i> fellowship.)   |
| 2009–2011  | Institut d’Astrophysique de Paris, France. ( <i>Marie-Curie IEF</i> fellowship.)   |
| 2008–2009  | Institut de Physique Theorique du CEA/Saclay (IPhT) & Institut d’Astrophysique de Paris (IAP). ( <i>Physique deux Infinis (P2I)</i> fellowship.) |
| 2007–2008  | Osservatorio Astrofisico di Arcetri, Firenze, Italy. (Assegno di ricerca.)   |

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|-----------|---|
| 2005–2007 | Visiting student at Kavli Institute for Particle Astrophysics and Cosmology, KIPAC. Stanford, USA.  |
| 2003–2007 | Graduate Studies in Physics at Università di Napoli “Federico II”, Napoli, Italy. PhD thesis <i>A search for Population III stars</i> ; supervisor: Prof. Dr. G. Miele.   |
| 1997–2003 | Undergraduate Studies in Physics at the Università di Napoli “Federico II”, Napoli, Italy. Thesis: <i>Limit to Population III star metallicity from Primordial Nucleosynthesis</i> ; supervisors: Prof. Dr. G. Miele; Dr. G. Mangano. |

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#### MENTORING & SUPERVISION

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| 2023–present | D. Ambrosino, PhD at Università di Napoli “Federico II”.  |
| 2022–present | A. Boccia, PhD at Scuola Normale Superiore Napoli (SSM).  |
| 2023         | S. D’Alterio, Bachelor at Università di Napoli “Federico II”.   |
| 2023         | D. Ambrosino, Master at Università di Napoli “Federico II”.   |
| 2022         | A. Boccia, Master at Università di Napoli “Federico II”.  |
| 2018–2021    | Martin de los Rios, postdoc supervision. ICTP-SAIFR, Brazil.  |
| 2015–2019    | Maria Benito Castaño; PhD at ICTP-SAIFR / UNESP, Brazil.  |
| 2018         | Danielle Kaori Nakashima, Master thesis co-supervision. IFSC-USP, Brazil.   |
| 2017–2019    | Ekaterina Karukes, postdoc supervision. ICTP-SAIFR, Brazil.   |
| 2017–2019    | Carolina Negrelli, PhD project co-supervision. Universidad de La Plata, Argentina.  |
| 2014         | Maria Benito Castaño; Master at IFT Madrid.   |
| 2010–2011    | Miguel Pato, PhD project co-supervision.  |
| 2011         | Florent Leclercq, master student (french level M1) of École Polytechnique (Paris, France); tutoring of research term (“stage”). at Université Paris VI. Supervisor: Benjamin Wandelt. |
| 2009–2013    | Silvia Galli, PhD project co-supervision.   |
| 2009–2010    | Marco Taoso, PhD project co-supervision.  |

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 TEACHING

- 2023–present “Dark Matter in Astrophysics”, PhD course at SUPRA graduate school (UniNA, UniBA, UniAquila).
- 2020–present “Astroparticelle Teorica”, Master course for Physics students, Università di Napoli.
- 2020–2023 “Fisica Generale”, undergraduate course for Pharmacy students, Università di Napoli.
- 2016 Organizer and teacher at “School on High Energy Astrophysics” (for master and PhD students) at ICTP-SAIFR, SP, Brazil.
- 2017 “Astrophysics for theoretical physicists”, ICTP–SAIFR/UNESP, Brazil.
- 2016 Organizer and teacher at “School on Dark Matter” (for master and PhD students) at ICTP-SAIFR, SP, Brazil.
- 2015, 2016 “Elementary Particles III” (Astroparticle), ICTP–SAIFR/UNESP, Brazil.
- 2012 “Introduction to AstroParticle Physics”, University of Stockholm.
- 2003 Teaching Assistant at “Fundamental Physics” at Medical School, Università di Napoli “Federico II”.

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 SCIENCE ORGANIZATION OF CONFERENCES, WORKSHOPS, SCHOOLS

- 2023 TeV Particle Astrophysics conference (TeVPA23), Napoli, Italy.
- 2023 Self-interacting Dark Matter workshop, Pollica, Italy.
- 2022 Re[incontri] di Fisica Partenopea, Napoli, Italy.
- 2020 South American Dark Matter workshop, ICTP–SAIFR, São Paulo, Brazil. Held online.
- 2019 School on High Energy Astrophysics, ICTP–SAIFR, São Paulo, Brazil.
- 2018 MITP thematic workshop “Tensions in the  $\Lambda$ CDM paradigm”, Mainz, Germany. *May 14-18, 2018*
- 2017 South American Dark Matter workshop, ICTP–SAIFR, São Paulo, Brazil.

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|--------------|---|
| 2016         | PPC 2016; ICTP–SAIFR, São Paulo, Brazil.  |
| 2016         | School on Dark Matter; ICTP–SAIFR, São Paulo, Brazil.   |
| 2016         | MITP two-week program on “DM in the MW, interaction between data, simulations, and astroparticle”; Mainz, Germany.  |
| 2015         | DM day in São Paulo. ICTP-SAIFR, SP, Brazil.  |
| 2015         | PASCOS 2015. DM convener. ICTP, Trieste, Italy.   |
| 2015         | Identification of DM with a cross-disciplinary approach, three-week program. IFT Madrid, Spain.   |
| 2012         | Lithium in the Cosmos, Paris, France. SOC/LOC.  |
| 2010         | Dark Matter all Around, Paris, France. SOC/LOC.   |
| 2010         | TeV Particle Astrophysics Conference; Paris, France. LOC.   |
| 2009         | TANGO in Paris, Paris, France. SOC/LOC.   |
| 2008-present | Internal meeting coordinations: Café GReCO @ IAP; CosmoCoffee @ IAP; Astrofika @ OKC; DM group meeting convener @ OKC; DM Journal Club organiser @ IFT; AstroCosmo Journal Club coordinator @ ICTP–SAIFR. |

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#### EXTERNAL GRANTS FOR ACTIVITIES AND COLLABORATIONS

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| 2017 | Prisma Cluster grant for 2018 “Tensions in the $\Lambda$ CDM” workshop at MITP, Mainz, Germany. (Successful application to MITP call for workshop. ~15kEuro for participants’ support.) |
| 2016 | ICTP-SAIFR grant for PPC conference. (Successful application for conference organization. See list of organized workshops for reference event in 2016. ~10kEuro.)                       |
| 2016 | ICTP-SAIFR grant for DM school. (Successful application for school organization. See list of organized workshops for reference event in 2016. ~10kEuro.)                                |
| 2016 | SPRINT grant for collaboration with Imperial College. London, UK. (FAPESP agency grant. ~6kEuro.)   |
| 2015 | SPRINT grant for collaboration with GRAPPA Institute. University of Amsterdam, The Netherlands. (FAPESP agency grant. ~10kEuro.)  |

- 2015 Prisma Cluster grant for workshop at MITP, Mainz, Germany. (Successful application to MITP call for workshop.  $\sim 20$ kEuro for participants' support. See list of organized workshops for reference event in 2016.)
- 2014 MULTIDARK grant for workshop at Madrid. (Successful application to Madrid IFT's call for workshop.  $\sim 30$ kEuro for participants' support. See list of organized workshops for reference event in 2015.)
- 2010 PEPS grant for intra-franco collaboration. (CNRS grant for travelling and collaboration.  $\sim 5$ kEuro.)
- 2009–2012 During these years I have organized several conferences in France (see list of organized events for reference). For each of them support was applied for, in different forms to different national agencies, receiving a total support of approximately  $\sim 20$ kEuro.

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INVITED TALKS AT CONFERENCES AND WORKSHOPS, A SELECTION

- 2019 WIMPs at crossroad. Kashiwa, Japan.
- 2019 Dark Side of the Universe (DSU 2019), Buenos Aires, Argentina.
- 2018 TeV Particle Astrophysics (TeVPA), Berlin, Germany.
- 2016 Dark Matter & Stars workshop, Paris, France.
- 2015 XXVI ENCPCF, Caxambu, Brazil.
- 2015 PPC conference, South Dakota, USA.
- 2015 Challenges of New Physics in Space, Campos do Jordao, Brazil.
- 2015 Mitchell Workshop, Texas A & M, Texas, USA.
- 2015 II Cesar Lattes Meeting. Rio de Janeiro, Brazil.
- 2014 WIMP–Axions, IBS-Multidark joint workshop. Daejeon, Korea.
- 2013 Dark Matter: cross-disciplinary, multi pronged approach. KITP, S. Barbara, USA.
- 2012 Lithium in the Cosmos. IAP, Paris, France. Conclusion talk.
- 2012 First Stars IV. Kyoto, Japan. Targeted talk.
- 2011 GdR Terascale 2011. Marseille, France.

- 2010            Cosmic Radiation Fields (Sources in the Early Universe). DESY, Hamburg, Germany.
- 2010            Multi-cubed Workshop (a cubic approach to DM). Università di Padova, Italy.
- 2010            Dark Matter in the sky and underground. Zurich, Switzerland.
- 2009            Workshop "Gammas in Zurich". Institute of Theoretical Physics, University of Zurich, Switzerland.

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INVITED SEMINARS & COLLOQUIA

- 2024 Physics Colloquium, Groeningen University, The Netherlands.
- 2023 TDLI seminar. Tsung–Dao Lee Institute, Jiao Tong University, Shanghai, China.
- 2022 Leibniz Institute on Aging - Fritz Lipmann Institute (FLI), Jena, Germany.
- 2021 SNOLab seminar, SNOLab, Canada. Online.
- 2019 IFT Colloquium, UAM, Madrid, Spain.
- 2019 DESY Theory Seminar, Hamburg, Germany.
- 2019 Seminario di Fisica, Università di Padova, Italy.
- 2019 IPPP seminar, Durham University, United Kingdom.
- 2018 Physics Seminar, King's College London, UK.
- 2017 Astroparticle seminar, RWTH Aachen, Germany.
- 2017 Research seminar, Humboldt University Berlin, Germany.
- 2016 Colloquium, MPP Munich, Germany.
- 2016 Còloquio de Física, Universidad de Buenos Aires, Argentina.
- 2016 Còloquio, Observatorio de La Plata, Argentina.
- 2016 Theory Seminar, LAPTh, Annecy-le-Vieux, France.
- 2015 Seminar, Dark Centre, Copenhagen, Denmark.
- 2015 Astronomy Seminar, UFRGS, Porto Alegre, Brazil.
- 2015 Astrophysics Seminar, DAS/INPE, São Jose dos Campos, Brazil.
- 2015 UFRJ Còloquio, Rio de Janeiro, Brazil.
- 2015 CBPF Còloquio, Rio de Janeiro, Brazil.
- 2015 IAG Colloquium, USP, São Paulo, Brazil.
- 2015 KIPAC Seminar, Stanford, USA.
- 2015 UCSC Seminar, Santa Cruz, USA.
- 2015 DESY Seminar, Zeuthen, Germany.

- 2015 Seminario, Universidad Federal do Espirito Santo, Vitoria, Brazil.
- 2015 FMA Còloquio, USP, São Paulo, Brazil.
- 2015 IFT Còloquio, São Paulo, Brazil.
- 2015 NCC Seminar, São Paulo, Brazil.
- 2015 GSSI seminar, L'Aquila, Italy.
- 2015 IFSC Còloquio, USP, São Carlos, Brazil.
- 2015 DRCC Seminar, UNICAMP, Campinas, Brazil.
- 2014 AIP Seminar, Potsdam, Germany.
- 2014 Physics Colloquium, Sungkyunkwan University, Suwon, Korea.
- 2014 Colloquio di Fisica, Università di Torino, Italy.
- 2014 Seminaire GReCO, IAP Paris, France.
- 2014 INFN seminar, Università Federico II, Napoli, Italy.
- 2014 IFT Seminar, IFT, Madrid, Spain.
- 2014 Astronomy Seminar, IAG at USP, Sao Paulo, Brazil.
- 2014 Theory Seminar, LAPTh, Annecy-le-Vieux, France.
- 2013 La Trobada, IFIC, Valencia, Spain.
- 2013 Colloquium, DESY Zeuthen, Germany.
- 2013 Theory Seminar, ICTP-SAIFR, Sao Paulo, Brazil.
- 2013 AstroSpace Seminar, Uppsala University, Sweden.
- 2013 Colloquium, Lund Observatory, Lund, Sweden.
- 2013 Theory Seminar, ICTP, Trieste, Italy.
- 2012 Theory Seminar, SITP, Stanford University, USA.
- 2012 CCAPP Seminar, Ohio State University, Columbus, USA.
- 2012 Theory Seminar, TUM, Muenchen, Germany.
- 2012 Oskar Klein Center Colloquium, Stockholm, Sweden.
- 2011 Stellar Physics seminar, Argelander Institut fur Astronomie, Bonn, Germany.



- 2011           Cosmology Seminar, AstroParticule et Cosmologie, Paris, France.
- 2011           Physics Department Seminar, Università Federico II, Napoli, Italy.
- 2011           ITA Colloquium at Heidelberg University, Germany.
- 2011           DESY Seminar, Zeuthen, Germany.
- 2011           Colloquium at Astrophysikalisches Institut Potsdam, Germany.
- 2011           GReCO seminar, Institut d' Astrophysique de Paris, France.
- 2011           LUPM Seminar, Université de Montpellier, France.
- 2010           Cosmology Seminar, Max Planck fuer Astrophysis, Garching, Germany.
- 2010           Theory Seminar, LAPTH–Université de Savoie, Annecy-Le-Vieux, France.
- 2010           Theory Seminar, Imperial College, London, United Kingdom.
- 2010           University of Kyoto and Yukawa Institute, Kyoto, Japan.
- 2010           Yukawa Institute for Theoretical Physics, Kyoto, Japan.
- 2010           Astroparticle Seminar at University of Hamburg-DESY, Hamburg, Germany.
- 2010           Colloquium, Scuola Normale Superiore, Pisa, Italy.
- 2010           Theory Seminar, APC, Paris, France.
- 2009           Seminaire de l'Observatoire de Genève, Versoix, Switzerland.
- 2009           LPTA colloquium, Université de Montpellier II, France.
- 2009           Theoretical Physics Colloquium, Università di Torino, Italy.
- 2009           Università La Sapienza, Roma, Italy.
- 2009           IFIC seminar, Valencia, Spain.
- 2009           Universidad Autonoma de Madrid, Spain.
- 2009           CENTRA Colloquium, Lisboa, Portugal.
- 2009           ITA Colloquium, Heidelberg, Germany.
- 2009           Stanford University, USA.
- 2009           Oscar Klein Center, Stockholm, Sweden.

- 2009            Colloquium, Osservatorio di Arcetri, Firenze, Italy.
- 2009            GReCO seminar at IAP, Paris, France.
- 2009            IPhT seminar at CEA, Saclay, France.
- 2008            Dark Center, Copenhagen, Denmark.
- 2008            Institute for Physics and Astronomy, Århus, Denmark.
- 2008            Theory Seminar, LAPTH–Université de Savoie, Annecy-Le-Vieux, France.
- 2008            University of California, Berkeley, USA.
- 2008            California Institute of Technology, Pasadena, USA.
- 2008            Astroparticle Seminar, Fermilab, USA.
- 2008            Theory Seminar at Max Planck fur Physik, Munich, Germany.
- 2007            IFIC, Valencia, Spain.
- 2006            Stanford Cosmology Tutorial Series,
- 2005            University of California Los Angeles, California, USA.

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LANGUAGE SKILLS

Italian: native

English: fluent

Spanish: fluent

French: conversational

Portuguese: fluent (Brazil), conversational (Portugal)

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ACADEMIC REFEREES

**John Beacom**, Professor.

Center for Cosmology and Astroparticle Physics, Ohio State University.

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**Lars Bergstrom**, Professor.

Oskar Klein Center for Cosmoparticle Physics, University of Stockholm.

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**Gianfranco Bertone**, Professor.  
Gravitation and AstroParticle Physics, University of Amsterdam.  
*Email:* gf.bertone@gmail.com

**Fernando Quevedo**, Professor.  
ICTP Trieste & Cambridge University.  
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**Vitor de Souza**, Professor.  
Instituto de Fisica de São Carlos, USP, Brazil.  
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