



**Prof. Andrea De Simone**

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## CURRICULUM VITÆ

### Personal details

Born on 7<sup>th</sup> April 1982. Italian citizenship.

### Professional Positions

- Apr 2018 – present Associate Professor  
**SISSA** – International School for Advanced Studies, Trieste, Italy
- Feb 2012 – Mar 2018 Assistant Professor (tenured)  
**SISSA** – International School for Advanced Studies, Trieste, Italy
- Oct 2012 – Sep 2013 Research Fellow (on leave of absence from SISSA)  
**CERN**, Theory Division, Geneva, Switzerland
- Sep 2010 – Jan 2012 Post-doctoral Fellow  
**EPFL** – École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland
- Aug 2006 – Jun 2010 Graduate Student  
**MIT** – Massachusetts Institute of Technology, Cambridge MA, USA

### Education and Degrees

- Jun 2010 **Ph.D.** in Physics  
**Massachusetts Institute of Technology (MIT)**, Cambridge MA, USA  
Advisor: Prof. Alan H. Guth.
- Jul 2007 Diploma *summa cum laude*  
**Scuola Normale Superiore**, Pisa, Italy
- May 2006 Laurea Specialistica (M.Sc.) *summa cum laude* in Theoretical Physics  
**Pisa University**, Italy  
Advisors: Prof. Antonio Riotto and Prof. Riccardo Barbieri
- July 2004 Laurea (B.Sc.) in Physics, *summa cum laude*  
**Pisa University**, Italy  
Advisor: Prof. Adriano Di Giacomo

### Research Interests

- Astroparticle Physics and Cosmology: Dark Matter, Baryogenesis, Inflation.
- Particle physics beyond the Standard Model: Supersymmetry, Composite Higgs models, Collider phenomenology.
- Machine Learning: Development of algorithms with applications to Science and Finance.

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## Professional Activities

- **Author** of a graduate-level book and of more than 50 scientific papers published in refereed journals ( $h$ -index=31).
- **Lecturer** of graduate-level courses at SISSA, teaching assistant for graduate students at EPFL and at MIT.
- **Speaker** at more than 15 invited seminars at universities and research institutes worldwide, more than 20 conferences and workshops attended upon invitation.
- **Supervisor** of 2 post-docs and 3 graduate students.
- **Referee** for several top-rank scientific journals:

Physical Review Letters	Physical Review D
Journal of Cosmology and Astroparticle Physics	Journal of High Energy Physics
The Astrophysical Journal	Annals of Physics
Classical and Quantum Gravity	General Relativity and Gravitation
Journal of Physics G	Monthly Notices of the Royal Astron. Society

## Institutional Responsibilities

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| 2017 – present | SISSA Director's delegate for University rankings                            |
| 2016 – 2018    | Member of the Evaluation Unit (Nucleo di Valutazione), SISSA, Trieste, Italy |
| 2012 – present | Faculty Member, SISSA, Trieste, Italy  |
| 2012 – 2015    | Organizer of Colloquia of Astro-particle Physics, SISSA, Trieste, Italy      |

## Computing Skills

C/C++, Python, MATLAB, Mathematica, R.