Roberto Gobbetti

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SUMMARY

Theoretical Physicist and Data enthusiast with broad academic experience.

- Strong scientific and mathematical background, at PostDoc level.
- Experienced in working with large datasets.
- Proficient in Python, SQL, Mathematica.
- Excellent interpersonal and collaboration skills.
- Curious and resourceful problem solver.
- Fast and eclectic self learner.
- Passionate about translating research into everyday applications.
- Able to deliver complex concepts effectively, adapting to the audience.

EXPERIENCE

DELTA INSTITUTE FOR THEORETICAL PHYSICS - ITP UTRECHT

Postdoctoral Research Fellow 2014 - Current

Research in Cosmology, String Theory and Random Matrix Theory

- Authored several peer reviewed papers on top journals.
- Invited speaker in various international institutions and conferences.
- Organized the weekly Cosmology seminars and the Utrecht Cosmology Symposium, first international cosmology conference in Utrecht.

NEW YORK UNIVERSITY

Faculty Adjunct 2009 - 2012

Teaching during the first years of Ph.D. program. Helped teaching and grading both entry level and advanced undergraduate courses. Class size ranged from 10 to about 200.

PROJECTS AND SELECTED PUBLICATIONS

STRING INFLATION AND COSMIC BUBBLE COLLISION

- I developed a model that explains the origins and early moments of the Universe in a String Theoretical framework, also correcting some established results in String Theory (JCAP 1303 (2013) 004).
- I studied a method to detect possible collisions with other universes as predicted by String Theory. The method is sometimes referred to as the *Gobbetti-Kleban Method* (JCAP 1205 (2012) 025).

DATA ANALYSIS

- I studied the data of New York City taxi to model the best place at different times of the day for a driver to go in order to maximize their hourly income (bit.ly/1Vzi0iH).
- I used congress data to produce an interactive map of the USA showing how often a representative of each state discusses a topic of choice (bit.ly/1mNpQpn). With similar data I produced another map highlighting state by state the discussion topics which best correlate with re-election (bit.ly/1owB2Cr).

EDUCATION

NEW YORK UNIVERSITY - CENTER FOR COSMOLOGY AND PARTICLE PHYSICS

Ph.D. in Physics 2009 - 2014

- Dissertation title: “Dealing with a Landscape: Signatures of False Vacuum Eternal Inflation and how to end it”.

INSTITUTE FOR ADVANCED STUDIES - PAVIA

Honors Degree: Diploma in Science 2003 - 2009

UNIVERSITY OF PAVIA

M.Sc. in Theoretical Physics (110/110 cum laude) 2006 - 2008
B.Sc. in Physics (110/110 cum laude) 2003 - 2006

HONORS AND AWARDS

New York University - James Arthur Graduate Award
New York University - MacCracken Fellowship
International School for Advanced Studies, Trieste (SISSA) - M.Sc. Fellowship
Institute for Advanced Studies, Pavia (IUSS) - Honors Fellowship
Almo Collegio Borromeo - Honors Fellowship

SKILLS & INTERESTS

Computer skills

- **Programming languages:** Python, Mathematica, SQL, experienced in C, Matlab, html/CSS, JavaScript
- **Tools:** Git, Latex, Pandas

Languages

- Italian (native), English (fluent), Spanish (basic)

Media and Entertainment

- Scientific adviser for Italian Sci-Fi series “I 7 giorni della fine del mondo” (in pre-production)

My interests span from Data Science, Programming and New Technologies to Economics and Politics. When I am not debating the origins of the Universe, I like to travel within it.