

CURRICULUM VITAE

LUCIEN HEURTIER

Research Experience

- Oct. 2023 - Present: Postdoc. Research Associate, **King's College London**, UK
- Oct. 2020 - Sept. 2023: Postdoc. Research Associate, **Durham University**, UK
- Oct. 2017 - Sept. 2020: Postdoc. Fellowship, **University of Arizona**, USA
- Oct. 2015 - Sept. 2017: Postdoc. Fellowship, **Université Libre de Bruxelles**, Belgium

Teaching Experience

- July 2022 (30 min): **Invited Lecture** - YETI 2022: *Phenomenology in the sky*, Durham University
- 2021 – 2023 (32h): **Teaching assistant**, Msc program *Particles, Strings and Cosmology* at Durham University (master/PhD level)
- 2020 – 2021 (20h): **Teaching assistant**, Foundations of Physics (Level 1), Durham University
- Jan. 2021 (8h): **Teaching assistant** (online), ENSTA-Paristech (France) in Statistical Physics
- 2017 – 2019 (8h): **Substitute professor** of Shufang Su (undergraduate level, Quantum Mechanics) University of Arizona
- 2015 – 2017 (8h): **Teaching Assistant** of Brussels University (Introduction to Quantum Field Theory, master level)
- June 2014 (3h): **Invited lecture** about Cosmic Inflation (SINJE, LPT Orsay, France)
- 2012 – 2015 (80h): **Teaching assistant**, Engineer program (Ensta Paristech, Paris) in Quantum Mechanics, Statistical Mechanics, Theoretical Astrophysics, Classical Field Theory, and General Relativity

Supervising Experience

- May – July 2022: **Supervisor of a master Student** from Université Paris Saclay, France: internship on the *production of primordial black holes from inflation*, which **led to publication** in July 2022.
- Mar. – Jul. 2021: **Supervisor of a master Student** from BITS Pilani, India (internship on *quintessential inflation models*)
- Mar. – Jul. 2016: **Supervisor of a master Student** from École Polytechnique, France (internship on the *inflaton portal to dark matter*). **Awarded as best research internship of École Polytechnique that year.**

Organisational Activities

- **June 2023:** Co-Creator and Organiser of the **New Horizons for Primordial Black Hole Physics** (NEHOP) workshop (>80 participants)
- **May 2021:** Co-Organiser of **the international Planck Conference** (>200 participants)
- **2018 – 2020:** Organiser of the U. of Arizona High-Energy and Gravitation Journal Club
- **2016 – 2017:** Organiser of the **Theory Group Journal Club** and Seminar series at Université Libre de Bruxelles
- **2013 – 2015:** Organiser of the **Student Seminars** of École Polytechnique
- **2012 – 2013:** **Administrative organiser** of a new Physics lecture series at ENSTA-ParisTech, France

Referee for Peer-Reviewed Journals

- **Reviews requested by:** Physical Review Letters, Physical Review D, International Journal of Modern Physics A, and Nature Scientific Reports

Outreach / Dissemination

- **March 2023:** Online event **“I’m a scientist”**, elected **weekly winner** by the students
- **May 2022:** Invited presentation for the **Pint of Science 2022**, Leeds, UK
- **Mar. 2022:** Animation of the **Post Offer Day**, Durham University, UK
- **Nov. 2021:** **Dark Matter Day 2021**, virtual exhibition
- **Sept. 2018:** **Invited Tech Talk** on Big Bang Cosmology in front of young entrepreneurs, Tucson, USA
- **Oct. 2010:** **Fête de la Science 2010**, public presentations on memory-shape alloys at ENSTA-ParisTech, Paris, France

Education

- **2012 –2015:** **Phd in Theoretical Physics** (Highest Honour),
École Polytechnique, Palaiseau (Supervised by Emilian Dudas)
- **2010 –2012:** Masters degree in theoretical physics, École Normale Supérieure (ENS) de Paris.
- **2008 –2011:** Master Degree in applied mathematics and numerical simulation from ENSTA-ParisTech, Paris, France
- **2009 –2010:** Bachelor in Fundamental Mathematics from Université Pierre et Marie Curie, Paris, France

External Fundings

- **Jan. 2023:** Application to **University Research Fellowship** with Durham University, UK. **First round of panel selection passed successfully.**
- **Sept. 2020:** Application to **Marie Curie Fellowship** with the LPTHE, Paris. **Total Score: 82.60%**
- **Feb. 2019:** **CNRS visiting fellowships** - École Polytechnique, France. **Funded upon competitive application**
- **July 2015:** **Visiting Grant** - PIER Short Visits 2015, DESY theory group. **Funded upon competitive application**

Public Engagement

- **Jan. 2023:** Registered as a **STEM Ambassador** in the UK – **North East England STEM Hub (RTC North).**