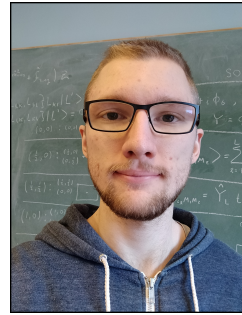


# Rasmus Steen Kofoed Nielsen

Niels Bohr Institute  
Blegdamsvej 15-21  
Copenhagen, 2200 Denmark  
Phone: +45 24664501  
email: [rasmusskn@gmail.com](mailto:rasmusskn@gmail.com)



Born: June 10, 1996—Roskilde, Denmark  
Nationality: Danish

---

## Current occupation

In search of employment

---

## Education

2018 *B.Sc. in Physics: Quantum Physics*, University of Copenhagen  
2020 *M.Sc. in Physics: High Energy Theory and Cosmology*, University of Copenhagen

---

## Areas of primary interest

- Quantum Field Theory
  - General Relativity
  - Differential Geometry
  - Quantum Gravity
  - String Theory
- 

## Subjects of prior and current work

- Black hole solutions in  $(2+1)$  dimensional Einstein gravity (*B.Sc. thesis*)
  - Point particle solutions in  $(2+1)$  dimensional Anti-de Sitter space (*project o.c.s.*)
  - Defect conformal field theory in the context of AdS/CFT (*M.Sc. thesis*)
-

---

## Subject of master thesis

2019, 2020

Computation of various *two-point functions* between types of local single-trace scalar operators in different (*less supersymmetric*) defect versions of  $\mathcal{N} = 4$  super Yang Mills theory. Both conventional perturbative techniques, as well as techniques related to *integrability* in  $\mathcal{N} = 4$ , are employed in order to obtain the next to leading order contributions of the two-point functions in question.

---

## Subject of bachelor thesis

2018

Features of *black hole solutions* in  $(2+1)$  dimensional Einstein gravity with a cosmological constant. We examine both classical features like *mass and spin*, and the semiclassical appearance of a temperature leading to *Hawking radiation*.

---

## Projects outside course scope

2018

Reading course on *point particle solutions* in  $(2+1)$  dimensional *Anti-de Sitter space*, and their connection to *rotating and non-rotating black hole solutions*.

---

## Programming experience

- Extensive programming experience with:  
**Mathematica, Maple, MATLAB, Python, PHP and HTML**
  - Moderate programming experience with:  
**JavaScript, C++, C and Java**
  - Solved 24 [Project Euler](#) problems (*programming challenges*).
  - Link to my [GitHub Page](#), containing various projects.
- 

## Volunteer work

2017, 2018,  
2019

Worked for the IT department of the nonprofit organization **Roskilde Festivalen**, by delivering and connecting cash registers to shops on the festival grounds.

---

---

## Prior work experience

2008, 2009

Worked as paperboy for a local newspaper in the *Roskilde* area: **Dagbladet Roskilde**.

---

## Language proficiency

- Danish: *native speaker*
  - English: *fluent*
  - German: *basic knowlegde*
  - Japanese: *basic knowlegde*
- 

## Hobbies

- Reading books and watching lectures on math and physics
  - Doing exercise and weightlifting
  - Playing computer games
  - Watching films and TV series
-