

# Lucas Clemente

10/2011 – present

## PhD Student

Max-Planck-Institute of Quantum Optics & LMU Munich

In the Quantum Information Theory group of Prof. Ignacio Cirac, I co-pioneered the field of Quantum Magnetomechanics. We proposed experimental setups using the magnetic properties of superconductors to observe quantum behavior on massive objects.

10/2009 – 10/2011

## Student Research Assistant

Max-Planck-Institute of Quantum Optics

10/2009 – 10/2010

## B.Sc. in physics

LMU Munich

07/2008 – 10/2009

## Student Research Assistant

Forschungszentrum Dresden-Rossendorf — Plasma Theory

06/2008 – 09/2009

## Student Research Assistant

Cluster of Excellence "Munich Advanced Photonics"

10/2007 – 10/2009

## Early studies in computer science & physics

TUM / LMU Munich

06/2007 – 05/2008

## Student Research Assistant

Maier-Leibnitz-Laboratorium Munich — Simulated Medical Physics

09/1999 – 06/2009

## Abitur

Elementary School & Maria-Theresia-Gymnasium

During school I skipped the 1st, 8th and 10th grade, studied computer science and physics and worked as student research assistant at three different institutes. For my final thesis I received the thesis prize of the German Physical Society.

## Contact

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f [luke.clemente](https://www.facebook.com/luke.clemente)

🐦 [@luke\\_r2d2](https://twitter.com/luke_r2d2)

📺 [lucas-clemente](https://www.youtube.com/channel/UC-lucas-clemente)

## Personal

### Birthday

14/01/1993 (20), Munich, Germany

### Interests

Technology, Mathematical Physics,  
Quantum Information, Economics, Music  
(Piano), Jogging

### Organizations

[German National Academic Foundation](#)  
("Studienstiftung"), [Chaos Computer Club](#),  
[German Physical Society](#)

## Skills

C++ ★★★★★

HTML, CSS & JS ★★★★★

Ruby & Rails ★★★★★

Mathematica ★★☆☆☆

## Publications

- 📄 L. Clemente, *et al.*: Poster at GRC "Mechanical Systems in the Quantum Regime" 2012, Galveston, TX, USA
- 📄 O. Romero-Isart, L. Clemente, C. Navau, A. Sanchez, J. I. Cirac: Quantum Magnetomechanics with Levitating Superconducting Microspheres, [arXiv:1112.5609](https://arxiv.org/abs/1112.5609), [PRL](#) **109**, 147205 (2012)
- 📄 F. Pastawski, L. Clemente, I. Cirac: Quantum memories based on engineered dissipation, [arXiv:1010.2901](https://arxiv.org/abs/1010.2901), [PRA](#) **83**, 012304 (2011)
- 📄 C. Hoeschen, H. Schlattl, M. Zankl, T. Seggebrock, L. Clemente, F. Grüner: Simulating mammographic absorption imaging and its radiation protection properties, World Congress 2009 — Medical Physics and biomedical engineering, Theme 03
- 👤 L. Clemente: Integrating Tracking and Beam-Matter Interaction for Beam Line Design, Dresden ENLITE 09