

Curriculum vitae Jose Lado (updated on December 13th 2021)

Personal information

Full name: Jose Luis Lado Villanueva

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Group homepage: <https://physics.aalto.fi/en/groups/cqm>



Current position

- 2019-present: **Tenure-Track Assistant Professor**, Leader of the *Correlated Quantum Materials group*, Aalto University, Espoo, Finland

Education

2013 – 2016, **Ph.D. in Material Science**, University of Santiago de Compostela, Spain

2012 – 2013, **M.Sc. in Material Science and Technology**, University of Santiago de Compostela, Spain

2007 – 2012, **B.Sc. in Physics**, University of Santiago de Compostela, Spain

Previous work experience

- 2017 - 2019: **ETH Fellow**, Institute for Theoretical Physics, ETH Zürich, Switzerland
- 2016 - 2017: **Research Fellow**, INL, Braga, Portugal
- 2013 - 2016: **Marie Curie-Skłodowska Early Stage Researcher**, INL, Braga, Portugal
- 2013: **Researcher**, University of Santiago de Compostela, Spain (4 months)
- 2012: **Summer Scholarship**, INL, Braga, Portugal (2 months)
- 2011-2012: **Collaboration grant**, University of Santiago de Compostela, Spain (8 months)

Personal research funding and grants

- 2021 - 2023, Jane and Aatos Erkkö Foundation proof of concept grant
- 2020 - 2025, Academy of Finland Research Fellow, awarded by Academy of Finland
- 2020 - 2023, Initial funding for research costs, awarded by Academy of Finland
- 2017 - 2019, ETH Postdoctoral Fellowship, awarded by ETH Zürich

Research supervision and leadership experience

- Ph.D. supervision: currently 5 Ph.D. students (1 from 2019, 2 from 2020, 2 from 2021)

Research output

- **Publications:**

I have authored 70 peer review publications. As a brief summary, I authored 9 Physical Review Letters, 13 Physical Review Research, 11 Physical Review B, 1 Physical Review X, 2 Nature Nanotechnology, 1 Nature Physics, 1 Science Advances, 1 Nature and 2 Science (among others). I am last author in 16 papers since 2018.

- **Bibliometrics:**

I have been cited more than 2300 times, h-index of 23 and i10-index of 40, according to [Google Scholar](https://scholar.google.com/citations?user=NsgrioAAAAJ&hl=en).

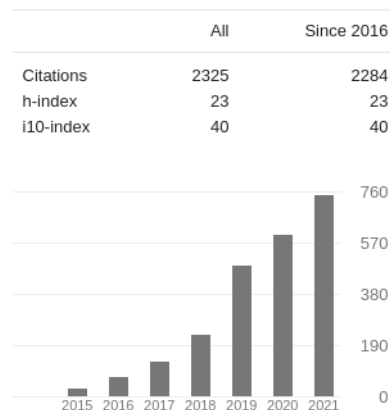


Fig. 1: Google Scholar citation count on December 13th 2021

- **Open source software development:**

- [pyqula](#): Python library to study tight-binding models
- [dmrgpy](#): Python library to study many-body quantum models with tensor network techniques
- [Quantum Lattice](#): User interface to study tight binding models
- [Spinflare](#): User interface to study many-body spin models with tensor network techniques

Teaching experience

- “Solid-state Physics”, M.Sc. Course, Aalto University (2020-2021)
- Proseminar at ETH Zurich (Switzerland) on “Quantum field theoretical methods for mesoscopic transport” organized by Prof. Oded Zilberberg (2018).
- Course at ETH Zurich (Switzerland) on “Physics in the Smartphone”, organized by Prof. Bertram Batlogg and Prof. Manfred Sigrist (2018).
- Proseminar at ETH Zurich (Switzerland) on “Many-body quantum transport” organized by Prof. Oded Zilberberg (2019).

Career breaks

None

Awards and honours

- **Awards**

- [Early Career Award \(runner-up\)](#), awarded by DPG & IOP through NJP (2021)
- [Best Ph.D. Thesis in Theoretical Condensed Matter Physics](#), awarded by the Spanish Royal Society of Physics (2016)
- Extraordinary Doctorate Prize, awarded by the University of Santiago de Compostela, Spain (2016)

- **Fellowships**

- Academy of Finland Research Fellow, awarded by Academy of Finland (2020-2025)
- ETH Fellowship, awarded by ETH Zürich (2017-2019)

Other key academic merits

- **Experience of organizing scientific meetings:**

2020-2021 Atomic-scale Quantum Materials colloquium (<https://asqm-colloquium.aalto.fi/>)
2021 IOP-EPS minicolloquium “Spin control in twisted van der Waals heterostructures”

- **Reviewing activities:**

External reviewer in *Science*, *Nature*, *Nature Physics*, *Nature Communications*, *Physical Review X*, *Physical Review Letters*, *Physical Review B*, *Physical Review Research*, and *2D Materials*.

- **Institutional responsibilities**

2021 – today CECAM-FI Node director, Finland (<https://cecam.aalto.fi/>)

- **Selected invited talks (full list [here](#))**

- Graphene 2021, Grenoble, France
- ICN+T 2021, Canada, 2021
- SPICE workshop on Coherent order and transport in spin-active systems: Interplay between magnetism and superconductivity, 2020
- Zhejiang Workshop on Correlated Matter, Hangzhou, China, 2019
- American Physical Society (APS) March Meeting, Boston, United States, 2019