

Thomas Botzung

Institut de Science et d'Ingénierie Supramoléculaire (ISIS),
8 Allée Gaspard Monge Strasbourg, France 67000

☎ (+33) 7 68 08 30 93

✉ thomas.botzung@gmail.com

15 April 1993, Sarreguemines, France

Short Curriculum Vitae

Education

- 2015–2016 **M.Sc. in Condensed Matter and Nanophysics**, University of Strasbourg.
- 2016–present **Preparation of Ph.D. in Quantum Physics**, ISIS, Strasbourg, under the direction of Guido Pupillo.
- Subject: *Study of Strongly correlated systems with long-range interaction*

Master's thesis

- Title *Localization and single-particle mobility edge in random long-range Kiteav models*
- Supervisor Professor Guido Pupillo
- Description In this thesis we explore the interplay between the phenomenon of localisation and long-range physics by investigating a disordered long-range system of spinless fermions.

Posters & Talks

- 2018 **Localisation properties in long range disordered one-dimensional fermionic models**, Poster Presented at the 11th Italian Quantum Information Science conference, September 17th -20th, Catania, Italy.

Publications

- Algebraic Localization from Power-Law Interactions in Disordered Quantum Wires**, Thomas Botzung, Davide Vodola, Piero Naldesi, Elisa Ercolessi and Guido Pupillo, Submitted to *Physical Review Letter*, <https://arxiv.org/pdf/1810.09779.pdf>.