



# Doru Cristian Sticleț

**Date of birth:** 12/09/1980 | **Nationality:** Romanian | **Phone number:** (+40) 0749020090 (Mobile) |

**Email address:** [doru.sticlet@itim-cj.ro](mailto:doru.sticlet@itim-cj.ro) | **Address:** Str. Donat nr. 67-103, 400293, Cluj-Napoca, Romania (Work)

## ● WORK EXPERIENCE

2017 – CURRENT Cluj-Napoca, Romania

**SCIENTIFIC RESEARCHER** NATIONAL INSTITUTE FOR RESEARCH AND DEVELOPMENT OF ISOTOPIC AND MOLECULAR TECHNOLOGIES

- Permanent member in the Quantum Engineering Team.

2014 – 2017 Delft, Netherlands

**POSTDOCTORAL RESEARCHER** DELFT UNIVERSITY OF TECHNOLOGY

- Theoretical research in condensed matter
- Teaching assistant to 2 master courses
- Cosupervisor a bachelor thesis

2012 – 2014 Bordeaux, France

**POSTDOCTORAL RESEARCHER** BORDEAUX UNIVERSITY

- Developing theory for persistent currents in topological insulators.
- Teaching assistant to an undergraduate course (1 semester).

01/12/2012 – 01/08/2013 Dresda, Germany

**GUEST SCIENTIST**

- Member of advanced study group: *Topological band structure and their instabilities*

## ● EDUCATION AND TRAINING

2009 – 2012 Gif-sur-Yvette, France

**PHD IN PHYSICS** Université Paris-Saclay, Laboratoire de Physique des Solides

Topology in condensed matter  
Topological insulators, Chern insulators  
Topological superconductivity and Majorana bound states  
Tight-binding models for study of topological matter

**Address** 3 rue Joliot Curie Bâtiment Breguet, 91190, Gif-sur-Yvette, France |

**Website** <https://www.universite-paris-saclay.fr/en> | **Field of study** Theoretical condensed matter physics |

**Final grade** Très honorable |

**Thesis** Edge states in Chern insulators and Majorana fermions in topological superconductors

2007 – 2009 Utrecht, Netherlands

**MASTER IN THEORETICAL PHYSICS** Utrecht University

**Address** Heidelberglaan 8, 3584, Utrecht, Netherlands | **Website** <https://www.uu.nl/en> |

**Field of study** Theoretical physics |

**Thesis** Signatures of phase transitions in a two-dimensional ultracold molecular dipolar Fermi gas

2003 – 2007 Cluj-Napoca, Romania

**BSC IN PHYSICS AND COMPUTER SCIENCE** Babeş-Bolyai University

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**Address** Str. Mihail Kogălniceanu, nr. 1 , 400084, Cluj-Napoca, Romania | **Website** <https://www.ubbcluj.ro/> |

**Thesis** Excitații colective la suprafața membranelor celulare

1999 – 2003 Cluj-Napoca, Romania

**BA IN PHILOSOPHY** Babeş-Bolyai University

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**Address** Str. Mihail Kogălniceanu, nr. 1, 400084, Cluj-Napoca, Romania | **Website** <https://www.ubbcluj.ro/>

## ● LANGUAGE SKILLS

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Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C2	C2	C2
<b>FRENCH</b>	B2	B2	B2	B2	B1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● DIGITAL SKILLS

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**Programming languages**

Python | Julia | C++ | C | Java

**Software for numerical and symbolic analysis**

Mathematica | MATLAB

**Quantum transport in tight-binding models**

KWANT

## ● ADDITIONAL INFORMATION

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### PROJECTS

08/09/2020 – 07/09/2022

**Superconducting phases and quantum transport in two-dimensional transition metal dichalcogenides**

### ADDITIONAL INFORMATION

#### Scientific indicators

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- 27 articles
- 608 citations (593 without self citation, Web of Science)
- h-index: 10 (Web of Science), 11 (Scopus), 13 (Google Scholar)

#### Scientific IDs

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- BrainMap: <https://www.brainmap.ro/doru-cristian-sticlet>
- ORCID: <https://orcid.org/0000-0003-0646-1978>
- Scopus AuthorID: [55062310900](https://orcid.org/0000-0003-0646-1978)
- ResercherID: [AFO-9470-2022](https://orcid.org/0000-0003-0646-1978)
- Google Scholar: [Sticlet Doru](https://orcid.org/0000-0003-0646-1978)

## Teaching experience

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- Qualified for Maître de conférences in France: [„Qualification“ \(2014\)](#)
  - Teaching assistant: Advanced Statistical Physics - TU Delft (2014-2015, 1 semester)
  - Teaching assistant: Applications of Quantum Mechanics - TU Delft (2015, 1 semester)
  - Teaching assistant: Certificat Informatique et Internet - Université de Bordeaux (2014, 1 semester)
  - Cosupervisor to bachelor thesis of R. ter Hoeven, [The kernel polynomial method applied to tight-binding systems with time-dependence](#)
  - Completed pedagogical module at UBB Cluj
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