

Juan Fernandez Toledano  
Simulation, Modelling and Analysis of Complex Systems  
Email: juan.fernandeztoledano@mil.be

## Qualifications

Physics, PhD, Structure, kinetic and topological properties of colloidal monolayers, University of Granada  
Award Date: 7 Mar 2008

Physics, Master, Science and technology of colloids and interfaces, University of Granada  
Award Date: 26 Oct 2006

Physics, Bachelor, University of Granada  
Award Date: 16 Oct 2002

## Employment

**Simulation, Modelling and Analysis of Complex Systems**

Royal Military Academy  
8 Nov 2021 → present

## Research outputs

**Detecting coordinated and bot-like behavior in Twitter: the Jürgen Conings case**

De Clerck, B., Fernandez Toledano, J., Van Utterbeeck, F. & Rocha, L. E. C., 5 Jun 2024, In: EPJ Data Science. 13, 1, 40.

**A possible way to extract the dynamic contact angle at the molecular scale from that measured experimentally**

Blake, T. D., Fernández-Toledano, J. C. & De Coninck, J., Jan 2023, In: Journal of Colloid and Interface Science. 629, p. 660-669 10 p.

## Activities

**NATO STO RTG SAS-SCI-207: Assessing and Exploring AI Natural Language Processing Technologies for Military Contexts**

Fernandez Toledano, J. (Participant)  
25 Jan 2025 → 27 Jan 2028

**SOCMINTEX: Social Media Intelligence Exploitation toolbox**

Fernandez Toledano, J. (Co-author)  
20 Nov 2024

**SOCMINTEX: AI-Powered Social Media Intelligence Toolbox**

Fernandez Toledano, J. (Poster presenter), De Clerck, B. (Co-author) & Van Utterbeck, F. (Co-author)  
28 May 2024

**AI-Powered Social Media Intelligence Toolbox**

Fernandez Toledano, J. (Poster presenter), De Clerck, B. (Co-author) & Van Utterbeeck, F. (Co-author)  
13 Dec 2023

**SAS-HFM-ET-FM: Natural Language Processing For Defence: Exploiting The Cutting Edge Of Large Language Models For Military Context**

Fernandez Toledano, J. (Participant)  
1 Dec 2023 → 1 Dec 2024

**NLP + network analysis for monitoring social networks: SOCMINT toolbox prototype**

Fernandez Toledano, J. (Co-author), De Clerck, B. (Co-author) & Van Utterbeeck, F. (Co-author)  
12 Sept 2022 → 13 Sept 2022

## **Projects**

### **SMALL: Social Media Analysis using Large Language models and multimodal deep learning**

Van Utterbeeck, F. (Promotor), Fernandez Toledano, J. (Researcher) & De Clerck, B. (Researcher)  
1/01/25 → 31/12/28

### **SOCMINTEX: Social media intelligence exploitation**

Van Utterbeeck, F. (Promotor), Fernandez Toledano, J. (Researcher) & Vermuyten, H. (Researcher)  
1/08/20 → 31/12/24