

# Filippo Andrei

## Expertise

**Computational Social Science:** Proficient in applying computational methods to social science research, including text analysis (e.g., topic modeling, text mining, sentiment analysis) and generalized additive models. Online crime, modalities of social influence in the online context and the interplay of trust and crime.

## Education

### PhD in Sociology and Social Research

*November 2019 - march 2024*

University of Trento, Trento, Italy

*Project title: "Modalities of Social Influence within Darknet Market"*

### M.A Communication and I.C.T

*April 2018*

University of Turin

Thesis title: "Trust and cooperation in cryptomarket for illegal drugs."

Grade 110/110 with Honor

### Bachelor's degree in Sociology and Social Policy

*December 2014*

University of Florence

Thesis title: "From the online community to the economy of platforms."

Grade 110/110 with Honor

## Work Experience

### Postdoctoral Researcher

*March 2024-March 2025*

University of Trento, Trento, Italy, Department of Sociology and Social Research

The ALGOLIT project aims at exploring the socio-cognitive determinants of algorithmic literacy and its consequences on individual cognition and behaviour in digital environments to develop concepts and measurements that are empirically testable.

### Assistant researcher

*June 2018-October 2019*

University of Turin/ Elbi International Spa, Turin, Italy

The position involved the design and implementation of a survey focused on assessing the well-being of workers and their propensity to adapt to technological advances in a factory.

### Junior researcher

*June 2016 - November 2016*

Eclettica, Turin, Italy

The research activities centered on analyzing the dark web forum community, specifically examining how users represented illegal drugs within this context.

### Market researcher

*February 2015 - August 2015*

Chamber of commerce of Athens, Athens, Greece

Conducting market analysis to support Greek businesses in increasing trade with Italy.

## Summer and Winter School

- **Computational Summer School on Modeling Social and Collective Behavior** *July 2023*  
Centre for the Advanced Study of Collective Behavior, Konstanz, Germany.
- **Summer Institute in Computational Social Science** *July 2022*  
Nova School of Business and Economics, Carcavelos, Portugal.
- **Summer course in Data Science: Introduction to Text Mining with R** *July 2021*  
University of Utrecht, Netherlands.
- **Winter course in Causal Inference and Experiments** *February 2021*  
GESIS – Leibniz-Institut für Sozialwissenschaften in Mannheim, Germany.

## Methodological Skills

- Proficient in utilizing **Generalized Additive Models (GAM)** to uncover nonlinear relationships within data that follow non-normal distributions.
- Skilled in designing and conducting **Discrete Choice Experiment (DCE)**.
- Experienced in utilizing digital methods, including **social media scraping techniques**, to extract valuable insights from vast online datasets.
- Specialized in **quantitative text analysis** techniques such as **Latent Dirichlet Allocation (LDA)** and **sentiment analysis**.

## Publications

### Journal Articles

**Title: Social Influence in Darknet Market: The Impact of Product Descriptions on Cocaine Sales**

*Journal: International Journal of Drug Policy, 2024*

Andrei, F., Veltri, G. A.

This study explores the social dynamics that promote social order in a darknet market, focusing on the impact of item descriptions on sales. In particular, the study examines how text contained in product listings can influence sales and contribute to social order.

**Title: Trust Intermediary in a Cryptomarket for Illegal Drugs**

*Journal: European Sociological Review, 2023*

Andrei, F., et al.

The paper contributes to understanding the effect of a trust intermediary in the drugs market by investigating how the intermediation of dark-net platforms affects sales in a dark web-market.

### Working Papers

**Title: Status spill-over in cryptomarket for illegal goods**

Status: Revise and Resubmit

Authors: Andrei, F, Veltri, V.

**Title: The Effect of Reputation and Escrow on Reducing Sellers' Opportunistic Behavior on Cryptomarket for Illegal Goods.**

Status: Submitted

Authors: Andrei, F, Veltri, V.

**Title:** Cognitive style and norms compliance in purchasing illegal and legal products on online markets

Status: Working paper

Authors: Andrei, F, Veltri, V.

## Presentations and Conferences

### Seminars by Invitations

- **Title:** "Status Spill-Over in Cryptomarket for Illegal Goods"  
**Host:** Department of Information Policy and Governance, Faculty of Media & Knowledge Sciences, University of Malta.(2023)
- **Title:** "Cognitive Style and Norms Compliance in Purchasing Illegal and Legal Products on Online Markets"  
**Host:** Department of Cognitive Science, University of Malta (2023)
- **Title:** "The Mechanism of Cooperation in Cryptomarket for Illegal Drugs"  
**Host:** Institute of Sociology, University of Bern, Switzerland (2018)

### Conference Presentations

#### 2022

- **Conference:** Annual meeting of Society for the Advancement of Socioeconomics  
**Title:** "Status Spill-Over in Cryptomarket for Illegal Goods"  
**Venue:** University of Amsterdam – Amsterdam, Netherlands.
- **Conference:** 14th Annual Conference of the International Network of Analytical Sociologists (INAS)  
**Title:** "Status Spill-Over in Cryptomarket for Illegal Goods"  
**Venue:** Department of Political and Social Sciences, European University Institute, Florence, Italy.

#### 2020

- **Conference:** Annual Meeting of Italian Society of Economic Sociology (SISEC)  
**Title:** "Order with Some Law: Institutions Moderate the Effects of Reputation in a Cryptomarket for Illegal Drugs"

#### 2019

- **Conference:** 18th International Conference on Social Dilemmas (with Davide Barrera)  
**Title:** "Order with Some Law: Institutions Moderate the Effects of Reputation in a Cryptomarket for Illegal Drugs"

## Teaching Experience

#### 2024

- **Class on Digital Methods for Social Science within "Models of Interaction and Social Network Analysis"**, University of Turin, (taught by Davide Barrera)

#### 2022

- **Class on Digital Methods for Social Science within “Models of Interaction and Social Network Analysis”**, University of Turin, (taught by Davide Barrera)
- **Teaching Assistant, “Laboratory Designing Organizational Wellness 4.0”**, University of Milano Bicocca

**2021**

- **Class on Digital Methods for Social Science within “Models of Interaction and Social Network Analysis”**, University of Turin, (taught by Davide Barrera)

**2020**

- **Class on Digital Methods for Social Science within “Models of Interaction and Social Network Analysis”**, University of Turin, (taught by Davide Barrera)

**2018**

- **Teaching Assistant, Course in Organization and Social Skills for Industry 4.0**, Polytechnic of Turin
- **Class on Digital Methods for Social Science within “Models of Interaction and Social Network Analysis”**, (taught by Davide Barrera)

## Other Activity

### **Research Group and scientific membership**

*2023/2024*

Member of Research Group: Center for Computational Social Science and Human Dynamics (C2S2) at the University of Trento (established Sept. 2021). C2S2 fosters interdisciplinary collaboration, integrating fundamental and applied research in computational social science. It facilitates cultural exchange, scientific debate, and the development of new research avenues.

### **Review activity for:**

*2022/2023*

Social forces;

The International journal on drug policy.

### **Outreach Activity:**

*2023/2024*

Unveiling the Science Behind Social Problems. Public Outreach at Leonardo da Vinci High School, Trento (presented to 12th grade students during Civics Week). Topic: Scientific Analysis of Social Problems

## Awards and Honors

### **Prize for the best graduate in sociology and social policy.**

*Academic Year 2014/2015*

The prize is awarded by the University of Florence.

### **Italian Delegate in Eurodoc**

*2023-Ongoing*

Eurodoc represents and advocates for PhD students and early career researchers in European institutions. The organization focuses on improving research standards, organizing events, and participating in policy discussions at the European level.

May 21, 2024, Trento  
Filippo Andrei