Giovanni Toto

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About Me

Date of birth:	May 12, 1997
Place of birth:	Padova, Italy
Nationality:	Italian

Current Position

Oct. 2022 - ongoing	**PhD student in Statistics**
	Department of Statistical Sciences, University of Padova
	Supervisor: Antonio Canale

Visiting Periods

March 2024 - ongoing	Department of Statistics and Data Sciences, University of Texas at Austin
	Supervisors: Peter Müller, Abhra Sarkar

Education

Oct. 2019 - March 2022	**Master's degree in Statistical Sciences**
	Department of Statistical Sciences, University of Padova
	Thesis title: A Topic Modeling Algorithm for Microblogs
	Supervisor: Emanuele Di Buccio
	Final mark: 110/110 cum laude
Oct. 2016 - Nov. 2019	**Bachelor's degree in Statistics for Technology and Science**
	Department of Statistical Sciences, University of Padova
	Thesis title: Design and Implementation of a Video Search Engine and a Graphical User Interface for Sentiment Analysis
	Supervisors: Massimo Melucci, Emanuele Di Buccio
	Final mark: 101/110

Research Activities

June 2022 - Oct. 2022	**Research fellowship**
	Department of Statistical Sciences, University of Padova
	Title: Development of R libraries for the implementation of Bayesian models for sc-RNA-seq data
	Supervisors: Antonio Canale, Davide Risso
	Implementation in R and C++ of Bayesian models for sc-RNA-seq data.
March 2020 - April 2020	**Research fellowship**
	Department of Information Engineering, University of Padova
	Title: Design, implementation, and use of a computer system for online acquisition of multimodal documents and real-time opinion analysis
	Supervisor: Massimo Melucci
	Design and implementation of a graphical interface allowing real-time analysis of opinions expressed in a video through multimodal sentiment analysis.

Research Interests

- Bayesian nonparametrics
- Density estimation
- Functional data analysis
- Random partition models

Publications

[1] Toto, G., & Di Buccio, E. (2022). A modular approach to topic modeling for heterogeneous documents. In G. Pasi, P. Cremonesi, S. Orlando, M. Zanker, D. Massimo, & G. Turati (Eds.), *Proceedings of the 12th italian information retrieval workshop 2022, milan, italy, june 29-30, 2022.* CEUR-WS.org

[2] Li, Q., Stefani, A., Toto, G., Di Buccio, E., & Melucci, M. (2020). Towards multimodal sentiment analysis inspired by the quantum theoretical framework. *3rd IEEE Conference on Multimedia Information Processing and Retrieval, MIPR 2020, Shenzhen, China, August 6-8, 2020*, 177–180

Conference Presentations

[1] Poster: Local Bayesian clustering for functional data; ISBA 2024, Venice, Italy (July 2024).

[2] Poster: Local Bayesian clustering for functional data; BAYSM 2024, Venice, Italy (June 2024).

[3] Contributed talk: A modular approach to topic modeling for heterogeneous documents; IIR 2022, Milan, Italy (June 2022).

Awards

- Best poster award at ISBA 2024, Venice, Italy (July 2024).

Programming skills

Advanced:	Python, R
Intermediate:	C++, LaTeX, mysql