

Fernanda Careta Ventorim

M.Sc. student in Computer Science, University of California Irvine (UCI), Irvine, CA, USA

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Education

M.Sc. in Computer Science

University of California Irvine (UCI)

2022-Actual

Irvine/CA – USA | GPA: 3.833

M.Sc. in Architecture and Urbanism

Fluminense Federal University (UFF)

2018-2020

Niterói/RJ – Brazil | GPA: 9.73/10

Thesis: "Criminality and urban space: an analysis of the relationship networks between types of crime, victim and spatial location in Rio de Janeiro".

Advisor: Prof. Vinicius de Moraes Netto – Ph.D. University College London.

B.Sc. in Accounting Sciences

Federal University of Espírito Santo (UFES)

2012-2017

Vitória/ES – Brazil | GPA: 7.61/10

Research: "Characteristics of Brazilian scientific publications on conservatism".

Advisor: Prof. Márcia Cristina Maciel – M.Sc. FUCEPE Business School.

B.Sc. in Architecture and Urbanism

Brazilian College (Multivix)

2012-2016

Vitória/ES – Brazil | GPA: 8.38/10

Research: "Connected urbanity: a reconciliation between urban voids and open spaces in the Jesus de Nazareth slum".

Advisor: Prof. Renata Morandi Lórá – Ph.D. University of São Paulo.

Research Interests

Criminology. Urban Violence. Inequality. Social Networks. Data Science.

Research Experience

Master's Thesis – UFF

2018-2020

Project: "Criminality and urban space: an analysis of the relationship networks between types of crime, victim and spatial location in Rio de Janeiro"

Supervisor: Prof. Vinicius de Moraes Netto

In my master's thesis, I explored relationships between different aspects connecting crime, victims, and spatial location. I have investigated territorial criminal patterns in Rio de Janeiro, Brazil, in order to understand how people's spatial location and personal characteristics influence their propensity to become a victim of certain types of crime. I hypothesized that these relationships are not random and that this heterogeneous distribution makes certain social groups more susceptible to specific types of crime. I have used a complex network model to group similar criminal occurrences according to the victims' profiles, crime characteristics, and location.

Senior Thesis – Multivix

2017

Project: "Connected urbanity: a reconciliation between urban voids and open spaces in the Jesus de Nazareth slum"

Supervisor: Prof. Renata Morandi Lórá

We analyzed the urban landscape of the Jesus de Nazareth slum, in the city of Vitória (ES) – Brazil, highlighting both free spaces and urban voids. This work aimed to propose the revitalization of this neighborhood, generating an urban connection between these local spaces.

Senior Thesis – UFES

2014-2015

Project: "Characteristics of Brazilian scientific publications on conservatism"

Supervisor: Prof. Márcia Cristina Maciel

This research aims to verify the impact of unconditional conservatism on the taxation of Brazilian companies, analyzing the qualitative content of accounting information regarding taxation on corporate profits.

Research project – Multivix

2014

Project: “Morphological analysis of the central streets in Vitória (ES)”

Supervisor: Prof. Agnes Leite Thompson

We construct a type-morphic framework, representative of the urban form, from the analysis of streets and their typological variations, from the downtown area of Vitória (ES) - Brazil, characterizing the relationships between physical elements (buildings, lots and streets) through floor plan analysis and cross sections, produced with graphical scale.

Research project – Multivix

2013-2014

Project: “Analysis of natural lighting performance in drawing classrooms in Vitória (ES)”

Supervisor: Prof. Aline Silva Sauer

In this project, we analyze the natural lighting performance of four design classrooms of a higher education institution, located in Vitória (ES) - Brazil, in order to verify the comfort conditions to which users are subjected.

Research project – Multivix

2012

Project: “Urban development in the northern cities of the state of Espírito Santo”

Supervisor: Prof. Anna Claudia D. Peyneau

This work characterizes physical and territorial issues and seeks alternatives to guide sustainable development in cities of the northern part of the Brazilian state of Espírito Santo. The project aimed to elaborate an orientation plan for urban development in these municipalities.

Awards and Scholarships

M.Sc. Scholarship: Full M.Sc. funding scholarship from the Brazilian's research agency CAPES (2018).

Best paper award: Characteristics of Brazilian scientific publications on conservatism (2015).

Undergraduate Research Scholarship: Scholarship from the Brazilian research agency FAPES (2014).

Other Academic Activities

Assistant Editor for Urban Morphology Journal – ISSN 2182-7214 (2019-2021).

Graduate Student Representative (2018).

Certificate degree: Teaching and Management in Higher Education (2016-2017) - Research: *Between practice and teaching in Architecture and Urbanism* | GPA: 9.67/10.

Teaching Experience

Teaching Assistant at the University of California, Irvine

ICS32 - Programming with Software Libraries (Prof. Mustafa Ibrahim) | Fall, Summer, Spring 2023

ICS139W - Critical Writing (Prof. Mustafa Ibrahim) | Winter 2023

ICS31 - Introduction to Programming (Prof. Shannon Alfaro) | Fall 2022

Teaching Assistant at Fluminense Federal University, Niteroi

Production and Management of Urban Land Use (Prof. Fernanda Furtado) | 2019

Teaching Assistant at Brazilian College, Vitoria

Environmental Comfort I (Prof. Aline Sauer) | 2015

Visual Arts (Prof. Dilma Góes) | 2012

Work Experience

Internship

2017

JS Contabilidade – Vitória/ES-Brazil

Description: Accounting sciences intern – administration/ consulting in the areas of accounting and management.

Internship in the largest Brazilian company

2015-2016

Petrobras – Vitória/ES-Brazil

Description: Architecture and urbanism intern – development of projects in the areas of civil construction and architectural design.

Journal papers

*The original publication title is in Portuguese.

F. C. Ventrorm; V.M. Netto. 2023. Crime and urban space: the relationship networks between crime, victims and location in Rio de Janeiro. *urbe. Revista Brasileira de Gestão Urbana*, 15, p.e20220141.

Conference papers

*The original publication titles are in Portuguese.

F. C. Ventrorm; F. P. Dias; J. T. Araujo; R. M. Correa. 2019. *Contemporary city and appropriation of public space: notes on a sensitive analysis of public spaces in the Botafogo neighborhood in Rio de Janeiro/RJ*. In: 8 Conferência da Rede Lusófona de Morfologia Urbana – PNUM, Maringá, 879-895.

F. C. Ventrorm; R. M. Lora. 2017. *Connected urbanity: a reconciliation between urban voids and open spaces in the Jesus de Nazareth slum*. In: 6 Conferência da Rede Lusófona de Morfologia Urbana – PNUM, Vitória, 293-301.

F. C. Ventrorm; R. M. Lora. 2016. *Urban voids in a segregated city: an analysis of the Jesus de Nazareth slum, Vitória – ES*. In: III Fórum Habitar, Belo Horizonte.

F. C. Ventrorm; M. C. Maciel. 2015. *Characteristics of Brazilian scientific publications on conservatism*. In: 6º Congresso UFSC de Iniciação Científica de Contabilidade, Florianópolis.

F. C. Ventrorm; L. R. Bragatto; M. L. Rodrigues; I. P. Dias; A. C. Marques; A. C. Diniz; G. Achiamé; A. S. Sauer; F. Rembiski. 2014. *Analysis of natural lighting performance in drawing classrooms in Vitória (ES)*. In: XV Encontro Nacional de Tecnologia do Ambiente Construído – ENTAC, Maceió, 897.

Conference posters

*The original publication titles are in Portuguese.

A. C. Marques; L. R. Bragatto; **F. C. Ventrorm;** G. L. Horta; H. S. Freire; M. L. Rodrigues B.; Q. A. Mariano; T. C. Casado. 2014. *From the esplanade to the cove: centrality and dispersion in Vitória – ES*. In: XIII Seminário de História da Cidade e do Urbanismo, Brasília.

F. C. Ventrorm; L. R. Bragatto; M. L. Rodrigues; I. P. Dias; A. C. Marques; A. C. Diniz; G. Achiamé; A. S. Sauer; F. Rembiski. 2014. *Analysis of natural lighting performance in drawing classrooms in Vitória (ES)*. In: Jornada de Iniciação Científica da Multivix Vitória – JICVIX, Vitória.

F. C. Ventrorm; A. L. Thompson; A. C. Marques; G. Achiamé; P. França; V. S. Neto. 2014. *Morphological analysis of the central streets of Vitória (ES)*. In: Jornada de Iniciação Científica da Multivix Vitória – JICVIX, Vitória.