

# LEONARDO CELLA

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## EDUCATION

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**Ph.D. in Statistics**, North Carolina State University, Raleigh, NC, USA May 2021

Advisor: Dr. Ryan Martin

Thesis: “New Imprecise-Probabilistic Methods for Statistical Inference and Prediction”

**M.S. in Statistics**, Universidade de Brasília, Brasília, DF, Brazil December 2013

Advisor: Dr. Eduardo Nakano

Thesis: “Bayesian Ordinal Regression”

**B.S. in Statistics**, Universidade de Brasília, Brasília, DF, Brazil May 2011

## EMPLOYMENT

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**Wake Forest University**, Assistant Professor of Statistics July 2022 - present

**North Carolina State University**, Postdoctoral Associate July 2021 - July 2022

**North Carolina State University**, Teaching/Research Assistant August 2015 - May 2021

**CGEE (Management Center and Strategic Studies)**, Data Scientist July 2013 - July 2015

Analysed surveys from various studies ranging from energy consumption to advances in the paper industry. Worked on a large study that provided a full demographic and economic description of all of the people with a doctorate degree living in Brazil.

**EBC (Brazilian Communication Enterprise)**, Data Scientist Jun 2012 - Nov 2012

Monitored and analyzed social media and TV audience data to help managers make decisions about content and advertisements on TV and on websites.

**Independent Consultant in Statistics** June 2011 - June 2013

Helped with data collection and data analysis of several projects at Universidade de Brasília, mostly from graduate students in the health sciences.

**EMBRAPA (Brazilian Enterprise of Agricultural Research)**, Intern Nov 2009 - May 2010

Collaborated with agriculture researchers and statisticians on experimental design and modeling of experimental data.

## TEACHING EXPERIENCE

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### Primary Instructor

Department of Statistics, North Carolina State University

ST 311 Introduction to Statistics

Fall/Spring 2018-19, Summer 2018-20

Department of Statistics, Universidade de Brasília

Applied Statistics

Fall 2014, Spring 2015, Summer 2015

### Teaching Assistant

Department of Statistics, North Carolina State University

ST 503 Fundamentals of Linear Models and Regression

Spring 2020

ST 307 Introduction to Statistical Programming- SAS

Fall 2017

ST 501 Fundamentals of Statistical Inference I	Summer 2017
ST 308 Introduction to Statistical Programming- R	Spring 2017
ST 512 Statistical Methods For Researchers II	Fall 2016
ST 511 Statistical Methods For Researchers I	Summer 2016
ST 370 Probability and Statistics for Engineers	Fall 2015, Spring 2016
Department of Statistics, Universidade de Brasília	
Introduction to Probability and Statistics	Spring 2011
Introduction to Biostatistics	Fall 2010
Applied Statistics	Spring 2010

## PUBLICATIONS

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### Peer Reviewed

- L. Cella and R. Martin (2022). Valid inferential models offer performance and probativeness assurances. *Proceedings of the 7th International Conference on Belief Functions*.
- L. Cella and R. Martin (2021). Validity, consonant plausibility measures, and conformal prediction. *International Journal of Approximate Reasoning*. Special issue in honor of Glenn Shafer's 75th birthday.
- L. Cella and R. Martin (2021). Approximately valid and model-free possibilistic inference. *Proceedings of the 6th International Conference on Belief Functions*.
- L. Cella and R. Martin (2021). Valid inferential models for prediction in supervised learning problems. *Proceedings of the 12th International Symposium on Imprecise Probabilities: Theories and Applications*.
- L. Cella and R. Martin (2019). Incorporating expert opinion in an inferential model while retaining validity. *Proceedings of the 11th International Symposium on Imprecise Probabilities: Theories and Applications*.

### In Review

- L. Cella and R. Martin (2021+). Valid inferential models for prediction in supervised learning problems. Invited Submission *International Journal of Approximate Reasoning*, special issue for top-rated papers presented at the ISIPTA 2021 conference.
- L. Cella and R. Martin (2021+). Direct and approximately valid probabilistic inference on a class of statistical functionals. Invited Submission *International Journal of Approximate Reasoning*, special issue for top-rated papers presented at the Belief 2021 conference.

## PRESENTATIONS

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- Invited Talk, "Valid inferential models for prediction", The 7th Bayes, Fiducial, and Frequentist Workshop (BFF 7), May 02-04, 2022, University of Toronto.
- Invited Talk, "Incorporating partial prior information in an inferential model", The 14th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2021), December 18-20, 2021, King's College London.
- Contributed Talk, "Approximately valid and model-free possibilistic inference", The 6th International Conference on Belief Functions (BELIEF 2021), October 15-17, 2021, Shanghai, China.
- Contributed Talk, "Valid inferential models for prediction in supervised learning problems", The 12th International Symposium on Imprecise Probabilities (ISIPTA 2021), July 6-9, 2021, Granada, Spain.

- Poster Presentation, “Bayesian Ordinal Regression”, 21st SINAPE (National Symposium of Probability and Statistics), July 20-25, 2014, Natal, RN, Brazil.

## ACADEMIC AWARDS & AFFILIATIONS

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<b>Invited Submission IJAR</b> , special issue for top-rated papers presented at the Belief 2021 conference.	2021
<b>IJAR Best Paper Award</b> , BELIEF 2021	2021
<b>Invited Submission IJAR</b> , special issue for top-rated papers presented at the ISIPTA 2021 conference.	2021
<b>IJAR Young Researcher Award</b> , ISIPTA 2021	2021
<b>Outstanding Teaching Assistant Award</b> , North Carolina State University	2019
<b>Member</b> , SIPTA, the Society for Imprecise Probabilities: Theories and Applications	2021-current
<b>Member</b> , BFAS, the Belief Functions and Applications Society	2021-current
<b>Member</b> , Mu Sigma Rho, National Honor Society for Statistics	2017-current
<b>Member</b> , American Statistical Association	2015-current
<b>Member</b> , Brazilian Statistical Association	2014-current