LEONARDO CELLA

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EDUCATION

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

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 Brasilia, 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

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

Peer Reviewed

- L. Cella and R. Martin (2022). Valid inferential models for prediction in supervised learning problems. Invited Submission *International Journal of Approximate Reasoning*, special issue for toprated papers presented at the ISIPTA 2021 conference.
- 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+). Direct and approximately valid probabilistic inference on a class of statistical functionals. Invited Submission *International Journal of Approximate Reasoning*, special issue for toprated papers presented at the Belief 2021 conference.

PRESENTATIONS

- 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

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