

Laura D'Angelo

CURRICULUM VITAE

Contact Information

Department of Economics, Management and Statistics (DEMS)
University of Milano-Bicocca
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Current Position

from December 2021

Research fellow in Statistics

Department of Economics, Management and Statistics (DEMS)
University of Milano-Bicocca

Research interests

- Statistical modeling
- Bayesian statistics
- Bayesian nonparametrics
- Computational statistics

Education

October 2018 - November 2021

PhD in Statistical Science, University of Padova.

Thesis title: Bayesian modeling of calcium imaging data

Supervisor: Prof. Antonio Canale

Co-supervisor: Prof. Michele Guindani.

October 2015 – November 2017

Master's degree (laurea specialistica/magistrale) in Statistical Science.

University of Padova, Department of Statistics

Title of dissertation: “Modelli Bayesiani nonparametrici: applicazioni al settore assicurativo ”

Supervisor: Prof. Antonio Canale

Final mark: 110/110 cum laude.

October 2012 – September 2015

Bachelor's degree (laurea triennale) in Statistics, Economics and Finance.

University of Padova, Department of Statistics

Title of dissertation: “L'area sotto la curva ROC specifica per caratteristiche”

Supervisor: Prof. Gianfranco Adimari

Final mark: 110/110 cum laude.

Visiting periods

January 2020 – November 2020
University of California, Irvine;
Irvine, CA (USA).
Supervisor: Prof. Michele Guindani.

Work experience

January 2018 – September 2018
BIP S.p.A.
Consultant, data analyst.

Awards and Scholarship

July 2021 - ISBA 2021 World Meeting.
ISBA 2021 Best Student/Postdoc Contributed Paper Award.

Computer skills

- R (advanced)
- C++, GitHub, Python (working level)

Language skills

Italian: native;
English: fluent.

Publications

Articles in journals

D'Angelo L. and Canale A. (2021) Contributed Discussion on: “Centered partition processes: informative priors for clustering”, in *Bayesian Analysis*, **16**(1), 356–358.

D'Angelo L., Canale A., Yu Z. and Guindani M. (2021) Detection of neural activity in calcium imaging data via Bayesian mixture models, in *Book of Short Papers SIS 2021* (Editors: Perna C., Salvati N., Schirripa Spagnolo F.), ISBN: 9788891927361.

D'Angelo L. (2019) Model based clustering in group life insurance via Bayesian nonparametric mixtures, in *Book of Short Papers SIS 2019* (Editors: Arbia, G., Peluso, S., Pini, A. and Rivellini, G.), ISBN: 978889191510.

Working papers

D'Angelo L., Canale A., Yu Z. and Guindani M. (2021) Bayesian nonparametric analysis for the detection of spikes in noisy calcium imaging data. *arXiv preprint arXiv:2102.09403*

D'Angelo L. and Canale A. (2021) Efficient posterior sampling for Bayesian Poisson regression. *arXiv preprint arXiv:2109.09520*

Conference presentations

D'Angelo L., Canale A., Yu Z. and Guindani M. (2021). Bayesian nonparametric analysis for the detection of spikes in noisy calcium imaging data. (contributed talk) *JSM 2021*, August 8 - 12, 2021.

D'Angelo L., Canale A., Yu Z. and Guindani M. (2021). Bayesian nonparametric analysis for the detection of spikes in noisy calcium imaging data. (contributed talk) *ISBA 2021 World Meeting*, June 23 - July 2, 2021. Pre-recorded video available at <https://youtu.be/SLLSJVuFnMs>.

D'Angelo L., Canale A., Yu Z. and Guindani M. (2021). Detection of neural activity in calcium imaging data via Bayesian mixture models. (contributed talk) *SIS 2021 Intermediate meeting*, Pisa, Italy, June 21 - 25, 2021.

D'Angelo L. (2019). Model based clustering in group life insurance via Bayesian nonparametric mixtures. *SIS 2019 Intermediate meeting*, Milan, Italy, June 12-14, 2019.

Teaching experience

April 2021

Tirocinio formativo

use of Latex for scientific writing, 2.5 hours

University of Padova

Other Interests

Member of LIPU (Lega Italiana Protezione Uccelli) since 2019.

Volunteer for the project Lipu LIFE Choo-na in 2019.

References

Prof. Antonio Canale

University of Padova

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35121 Padova. Italy.

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Prof. Michele Guindani

University of California, Irvine

Donald Bren School of Information and Computer Sciences; Irvine, CA 92697-1250

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