Laura D'Angelo

CURRICULUM VITAE

Contact Information

University of Padova
Department of Statistics
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Current Position

October 2018 - November 2021
PhD Student in Statistical Sciences, University of Padova.
Thesis title: Bayesian modeling of calcium imaging data
Supervisor: Prof. Antonio Canale
Co-supervisor: Prof. Michele Guindani.

Research interests

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

Education

October 2015 – November 2017
Master's (*laurea specialistica/magistrale*) degree 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

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