

# Nina DELIU

PhD Candidate in Methodological Statistics

## CONTACT INFO

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## EDUCATION

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- NOV 2017 - *Current*    **PhD in Methodological Statistics**, Università La Sapienza, Rome  
Research areas: *Reinforcement Learning, Deep Learning, Biostatistics, Dynamic Treatment Regimens, Mobile Health*  
Advisor: Prof. Pierpaolo BRUTTI
- JAN 2017    **Master of Science in Statistics and Decisions**  
Università La Sapienza - 110/110 *summa cum laude*  
Thesis: *Deep Learning to the Test: an Application to Traffic Data Streams*  
Advisor: Prof. Pierpaolo BRUTTI
- NOV 2016    **Master 2 in Bayesian Statistics and Decision Analysis**  
Université Paris-Dauphine - *Mention bien*  
Research Project: *Evidence Estimation of State Space Models: Sequential Monte Carlo<sup>2</sup> and Chib's Method Comparison*  
Advisor: Prof. Christian P. ROBERT
- JULY 2014    **Bachelor's Degree in Statistics, Economics Society**  
Università La Sapienza - 110/110 *summa cum laude*  
Thesis: *Income distribution analysis. The case of post-communist transition economies*  
Advisor: Prof. Alessandro RONCAGLIA

## ACADEMIC AND PROFESSIONAL EXPERIENCE

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- FEBRUARY 2020 - *Current*    *Visiting Research Scholar*  
**University of Toronto**, Toronto, Canada  
Advisor: Prof. Joseph J. WILLIAMS
- JULY 2019 - AUGUST 2019    *Deep Learning and Reinforcement Learning Summer School*  
**University of Alberta**, Edmonton, Alberta, Canada
- APRIL 2019 - JULY 2019    *Visiting Research Scholar*  
**National University of Singapore (NUS) & Duke-NUS**, Singapore  
Advisor: Prof. Bibhas CHAKRABORTY
- SEP 2018 - SEP 2019    *Academic Support Tutor - PLS (Scientific Degrees Project)*  
**Università La Sapienza**, Rome
- JULY 2018 - JAN 2019    *Tutor - II Level Master in Big Data*  
**Università La Sapienza**, Rome
- JUNE 2016 - JUNE 2018    *Biostatistician - Health Outcomes Research Unit*  
**Fondazione GIMEMA, Franco Mandelli ONLUS**, Rome

## COMPUTER SKILLS

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- Advanced Knowledge: R, R Studio,  $\LaTeX$ , Microsoft Office  
Intermediate Knowledge: SAS, Python, MATLAB, WinBUGS, VBA, mysql  
Basic Knowledge: C/C++, TensorFlow, H2O.ai

## TEACHING EXPERIENCE

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- FALL 2019 *Teaching assistant* (Prof. Pierpaolo Brutti)  
**Statistical Methods in Data Science**, Università La Sapienza
- OCTOBER 2019 *Tutor/Instructor* - Introduction to  $\LaTeX$  and Beamer  
**II Level Master in Big Data**, Università La Sapienza
- APRIL 2019 *Tutor/Instructor* - Introduction to SAS  
**II Level Master in Big Data**, Università La Sapienza
- FALL 2018 *Teaching assistant* (Prof. Pierpaolo Brutti)  
**Statistical Methods in Data Science**, Università La Sapienza
- FALL 2018 *Teaching assistant* (Prof. Marilena Barbieri)  
**Statistics for Economics**, Università Roma Tre
- SPRING 2018 *Teaching assistant* (Prof. Fulvio De Santis)  
**Statistical Inference**, Università La Sapienza
- SEP 2018 - *Current* *Private Teacher*  
**Statistics and Probability**, Camplus College - Rome

## AWARDS, SCHOLARSHIPS, GRANTS

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- 2019 **Starting Research Project Grant**, Università La Sapienza  
Project title: *Contextual Multi-armed Bandits for Developing Personalized Mobile Health Interventions*
- 2019 **Travel Scholarship**, CIFAR & Amii  
Issued for DLRLSS (Deep Learning and Reinforcement Learning Summer School)
- 2018 **Starting Research Project Grant**, Università La Sapienza  
Project title: *The role of self-reported health outcomes in cancer risk prediction: an exploratory study using the UK Biobank prospective cohort study*
- 2018 **SIS Poster Prize 2018** for the Best Poster, Società Italiana di Statistica (SIS)  
Poster title: *Deep Learning to the Test: an Application to Traffic Data Streams*
- 2017 **New Investigator Award**, ISOQOL (International Society for Quality of Life Research)  
Presentation title: *Modelling Strategies to Improve Estimates of Prognostic Factors Analyses with Patient Reported Outcomes: a Simulation Study*
- 2017 **Università La Sapienza**, Three-year Fully-funded PhD Scholarship
- 2015 **ERASMUS** Scholarship for Université Paris-Dauphine Double Degree Programme
- 2014 **Laziodisu** Graduation Prize
- 2012-16 **Laziodisu** Merit Scholarship (four consecutive years)

## TALKS AND CONFERENCE PRESENTATIONS

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- JULY 2019 **University of Alberta**, Edmonton, Alberta, Canada
- JUNE 2018 **Società Italiana di Statistica (SIS) 2018**, Palermo
- APR 2018 **Spring Meeting of the EORTC Quality of Life Group**, Paris
- FEB 2018 **Fifth Annual Workshop of the PhD School in Statistical Sciences**, Rome
- OCT 2017 **24<sup>th</sup> Annual Conference of the International Society for Quality of Life Research**, Philadelphia (PA), USA.
- MAR 2017 **The European Organisation for Research and Treatment of Cancer EORTC Groups Annual Meeting (EGAM)**, Bruxelles
- OCT 2016 **Autumn Meeting of the EORTC QoL Group**, Manchester

## RESEARCH ACTIVITIES

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Co-investigator in the PROMOTION registry: <http://promotion.gimema.it/>  
Project Manager of the CML24 module development: [EORTC QLQ-CML24 Website](#)  
Associate editor assistant for **Health and Quality of Life Outcomes - BMC journal**  
Reviewer for **Health and Quality of Life Outcomes** and **European Hematology Association**

## LANGUAGES

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Mother-tongue: ITALIAN, ROMANIAN  
Advanced: ENGLISH, RUSSIAN  
Intermediate: FRENCH

## PUBLICATIONS AND PROCEEDINGS

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- JAN 2019 Cottone, F., Deliu, N., Collins, G. S., et al, *Modeling strategies to improve parameter estimates in prognostic factors analyses with patient-reported outcomes in oncology* **Qual Life Res**, <https://doi.org/10.1007/s11136-018-02097-2>
- DEC 2018 Ousmen A., Touraine C., Deliu N., et al., *Distribution- and anchor-based methods to determine the minimally important difference on patient-reported outcome questionnaires in oncology: A structured review* **HQLO 16:228**, <https://doi.org/10.1186/s12955-018-1055-z>
- OCT 2018 Sparano F., Aaronson N., Cottone F., et al., *PCN368 - Concordance between patients and clinicians' reporting of symptomatic adverse events in cancer clinical trials: a systematic review* **Value in Health 21:S76-S77**, <http://dx.doi.org/10.1016/j.jval.2018.09.450>
- OCT 2018 Deliu N., Cottone F., Collins G.S., Anota, A., Efficace F. *Evaluating methodological quality of Prognostic models Including Patient-reported Health outcomes in oncology (EPIPHANY): a systematic review protocol* **BMJ Open 8(10):e025054**, <http://dx.doi.org/10.1136/bmjopen-2018-025054>
- JUNE 2018 Deliu, N., Brutti, P., *Deep Learning to the Test: an Application to Traffic Data Streams Book of Short Papers SIS2018*, ISBN-9788891910233
- OCT 2017 Deliu, N., Efficace, F., Collins, G. S., et al, *Modelling Strategies to Improve Estimates of Prognostic Factors Analyses with Patient Reported Outcomes: a Simulation Study* **Qual Life Res 26(Suppl 1):34-35**, <https://doi.org/10.1007/s11136-017-1658-6>
- OCT 2017 Touraine, C., Ousmen, A., Deliu, N., et al., *Statistical Methods to Determine the Minimal Clinically Important Difference in Health-Related Quality of Life Questionnaires in Cancer: A Systematic Literature Review* **Qual Life Res 26(Suppl 1):134**, <https://doi.org/10.1007/s11136-017-1658-6>
- OCT 2017 Sparano, F., Rees, J., Blazeby, J., Pezold, M., Pusic, A., Aaronson, N., Sprangers, M., Fayers, P., Deliu, N., et al., *Patient-Reported Outcomes (PROs) in Randomized Controlled Trials of Colorectal Cancers. Methodological Quality of Reporting Over Time* **Qual Life Res 26(Suppl 1):65-66**, <https://doi.org/10.1007/s11136-017-1658-6>
- OCT 2017 Efficace, F., Aaronson, N., Sparano, F., Sprangers, M., Fayers, P., Pusic, A., Anota, A., Cottone, F., Rees, J., Deliu, N., Piciocchi, A., et al., *Concordance between patient reported and clinical outcomes in randomized controlled trials (RCTs) of cancer treatment* **Qual Life Res 26(Suppl 1):103-104**, <https://doi.org/10.1007/s11136-017-1658-6>
- OCT 2017 Efficace, F., Aaronson, N., Sparano, F., Sprangers, M., Fayers, P., Pusic, A., Haas, A., Piciocchi, A., La Sala, E., Anota, A., Cottone, F., Deliu, N., Rees, J., et al., *Quality of Patient-Reported Outcome (PRO) Reporting in Randomized Controlled Trials (RCTs) over time. Evidence from 480 RCTs from 2004 to 2016* **Qual Life Res 26(Suppl 1):139**, <https://doi.org/10.1007/s11136-017-1658-6>
- OCT 2017 Efficace, F., Aaronson, N., Sparano, F., Sprangers, M., Fayers, P., Pusic, A., Haas, A., Anota, A., Cottone, F., Deliu, N., Rees, J., et al., *Type and Magnitude of EORTC QLQ-C30 Outcomes in Cancer Clinical Trials* **Qual Life Res 26(Suppl 1):104**, <https://doi.org/10.1007/s11136-017-1658-6>
- MAY 2017 Anota, A., Touraine, C., Ousmen, A., Deliu, N., et al., *Méthodes de détermination de la différence minimale cliniquement importante pour les questionnaires de qualité de vie relative à la santé en cancérologie*, **Revue d'Épidémiologie et de Santé Publique**, 65(Suppl 2):66, <https://doi.org/10.1016/j.respe.2017.03.041>
- 2017 Newsletter: Efficace, F., Deliu, N., *Raising the standards of patient-reported outcomes measurement in patients with chronic myeloid leukaemia: The international phase IV field-testing of the EORTC QLQ-CML24*, **The European Organisation for Research and Treatment of Cancer, Issue 17**

March 26, 2020

