Curriculum Leonardo Egidi

last update: December 28, 2023

Personal Information

Date of birth: 07-02-1989
Place of birth: Trieste (Trieste) - Italy
Nationality: Italian

Contact Information

University of Trieste
Department of Economics, Business, Mathematics and Statistics *'Bruno de Finetti'*
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Current position

October 2023

Senior Assistant professor (RTD-b) in Statistics (SECS-S/01)
Department of Economics, Business, Mathematics and Statistics *Bruno de Finetti*
University of Trieste - Trieste, Italy

Academic Qualification

May 2022

National Academic Qualification (ASN) as Associate Professor for the SSD SECS-S/01.

Previous Academic positions

October 2020 – September 2023

Assistant professor (RTD-a) in Statistics, SECS-S/01
Department of Economics, Business, Mathematics and Statistics *Bruno de Finetti*
University of Trieste - Trieste, Italy

March 2019 – September 2020

Adjunct Professor (Statistical Methods for Data Science, Bayesian Statistics)
Department of Mathematics and Earth Sciences
University of Trieste - Trieste, Italy

March 2018 – February 2020

Postdoctoral research fellow (Statistics, SECS-S/01)
Department of Economics, Business, Mathematics and Statistics *Bruno de Finetti*
University of Trieste - Trieste, Italy

November 2014 – November 2017

Ph.D. candidate (XXX cycle)
Department of Statistical Sciences
University of Padua - Padova, Italy

Academic Degrees

29 March 2018

Ph.D. in Statistical Sciences
Thesis "Developments in Bayesian Hierarchical Models and Prior Specification with Application to Analysis of Soccer Data", Department of Statistical Sciences, University of Padova (Italy).
Supervisor: Prof. Nicola Torelli (UNITS); Co-supervisor: Prof. Francesco Pauli (UNITS).

24 March 2014

Master in Statistical and Actuarial Sciences (110/110 cum laude)
Thesis "A Comparison Between Bayesian Hierarchical Models for the Meta-Analysis of Data from Pre-Electoral Polls"
Dipartimento di Scienze Economiche, Aziendali, Matematiche e Statistiche "Bruno de Finetti" (DEAMS)
Università degli Studi di Trieste, Trieste (Italy)
Supervisor: Prof. Nicola Torelli. Co-supervisor: Francesco Pauli.

14 July 2011

Bachelor in Statistics and Informatics for the Industry, the Finance and the Insurance (106/110)
Thesis "Considerazioni sul principio di arbitraggio"
Dipartimento di Scienze Economiche, Aziendali, Matematiche e Statistiche "Bruno de Finetti" (DEAMS)
Università degli Studi di Trieste, Trieste (Italy)
Supervisor: Prof. Marco Zecchin.

Research periods aborad

8 December– 21 December 2021

Visiting Scientist
Department of Statistics, Columbia University, New York, USA
Supervisor: Prof. Andrew Gelman.

January 2016 – July 2016

Visiting Scholar
Department of Statistics, Columbia University, New York, USA
Supervisor: Prof. Andrew Gelman.

Affiliations

- Member of the Italian Statistical Society (SIS).
- Member of the International Society for Bayesian Analysis).
- Member of the International Statistical Institute.
- Elected member in the board of the Young group of the Italian Statistical Society (y-SIS) (2019-2020)

- Elected member in the board of the Statistics and Data Science (2023)
- Deputy chair of the ISI Special Interest Group On Sports Statistics
- External collaborator of AUEB Sports Analytics Group (University of Athens).

Boards and commissions

- Member of the board of the ADSAI PhD program, Department of Mathematics and Earth sciences, University of Trieste.
- Member of the DEAMS research commission, academic year: 2021/2022.

Scientific Dissemination

Occasional blogger for the statistical blog *Statistical Modelling, Causal Inference, and Social Science*, authored by prof. Andrew Gelman (Columbia University).

Participation in 13 tips of *I numeri della pandemia*, broadcast on SkyTG 24 from August 2021 to February 2022 as a statistical expert on issues related to the Covid-19 outbreak.

Participation in 2 episodes of *Il Circolo dei Mondiali*, broadcast on RaiPlay on 6 and 9 December 2022, as a statistical expert on football-related issues.

Trieste Next 2019: organization and moderator of the meeting *Big Data and sport analytics. The use of statistical data in sport* on statistics and sport, 27 September 2019, with Dario Costa, Paola Zuccolotto (UniBS) and Nicola Torelli (UniTS).

Trieste Next 2020: participation in an information meeting on the covid-19 pandemic as a statistical expert on the subject.

Series of interviews on topics related to Covid-19 outbreak and sports statistics for the following publications: RAI Fvg, Il Piccolo, Il Corriere della Sera (Veneto edition), Il Gazzettino, Telequattro.

Fundings

Bando PRIN 2022 funded by the Italian Ministry of University and Research as Principal Investigator (PI), decreto n. 764 del 05/06/2023. Project title: *Statistical Models and AlgoRiThms in sports (SMARTsports). Applications in professional and amateur contexts, with able-bodied and disabled athletes.* Funding amount: 254,697 euro. Project's code: J53D23003860006. Project's length: October 2023-September 2025.

Teaching

A. Curricular courses

Statistical Methods for Data Sciences
Labs and exercises with R: 12 h
Master degree in *Data Science and Scientific Computing*
University of Trieste
A. Y.: 2017-2018; 2018-2019.

Statistical Methods for Data Sciences
Frontal lectures: 16 h
Master degree in *Data Science and Scientific Computing*
University of Trieste
A. Y.: 2019-2020; 2020-2021; 2021-2022.

Bayesian Statistics
Frontal lectures: 32 h
Master degree in *Data Science and Scientific Computing* and *Actuarial and Statistical Sciences*
University of Trieste
A. Y.: 2018-2019; 2019-2020; 2020-2021; 2021-2022; 2022-2023; 2023-2024.

Statistica (corso progredito)
Frontal lectures: 30 h
Master degree in *Actuarial and Statistical Sciences*
University of Trieste
A. Y.: 2021-2022; 2022-2023; 2023-2024.

Apprendimento statistico e machine learning
Frontal lectures: 30 h
Master degree in *Actuarial and Statistical Sciences*
University of Trieste
A. Y.: 2022-2023; 2023-2024.

Advanced Statistical Methods
Frontal lectures: 24 h
Master degree in *Data Science and Scientific Computing*
University of Trieste
A. Y.: 2023-2024.

Statistica
Frontal lecture: 8 h
Specialized school in *Igiene e Medicina Preventiva*
Azienda sanitaria universitaria Giuliano Isontina (ASU GI)
A. Y.: 2022-2023; 2023-2024.

B. PhD Courses

GLMM - Bayesian inference with Stan
Frontal lectures + labs: 5 hours
PhD school in *Statistical Sciences*, University of Padova.
A.Y.: 2018-2019.

GLMM - Bayesian inference with Stan
Frontal lectures + labs, 12 hours
PhD school in *Statistical Sciences*, University of Padova.
A. Y.: 2019-2020.

GLMM - Generalized Linear Mixed Models
Frontal lectures, 15 hours
PhD school in *Statistical Sciences*, University of Padova.
A. Y.: 2020-2021.

Review of Statistics

Frontal lectures: 6 hours
PhD in *Artificial Intelligence and Applied Data Science*, University of Trieste. A.Y.: 2022-2023; 2023-2024.

Advanced Statistics
Frontal lectures: 6 hours
PhD in *Artificial Intelligence and Applied Data Science*, University of Trieste. A.Y.: 2022-2023; 2023-2024.

C. Extra-curricular

27 September – 29 September 2017

Introduction to Bayesian Data Analysis with Stan
Frontal lectures+labs, 21 hours (with Jonah Sol Gabry, Research Fellow at Columbia University)
Joint Research Center (JRC), Sevilla.

11 December – 13 December 2017

Inferenza statistica Bayesiana: principi, metodi e applicazioni
Frontal lectures+labs, 13 hours
ARPA (Agenzia regionale per la protezione dell'ambiente) Friuli-Venezia Giulia, sede di Palmanova.

18 July – 20 July 2018

R course for SWG
Frontal lectures+labs (with Francesco Pauli and Roberta Pappadà, University of Trieste)
Department of Business, Economics, Mathematics and Satistics, University of Trieste

10 September – 14 September 2018

Introduction to Bayesian Data Analysis with Stan
Frontal lectures+labs (with Jonah Sol Gabry, Research Fellow at Columbia University)
Introduction to Bayesian Data Analysis with Stan
Department of Brain and Behavioral Sciences, University of Pavia

24 October – 26 October 2018

R: an environment for statistical modelling and graphics
Frontal lectures+labs (with Nicola Torelli and Giovanni Millo, professors at University of Trieste)
Assicurazioni Generali

30 September – 4 October 2019

Introduction to Bayesian Data Analysis with Stan
Frontal lectures+labs, 36 hours (with Gioia Di Credico, postdoctoral Research Fellow at University of Trieste)
Department of Brain and Behavioral Sciences, University of Pavia

January 2019

R course for SWG II
Frontal lectures+labs (with Francesco Pauli and Roberta Pappadà, University of Trieste)
Department of Business, Economics, Mathematics and Satistics, University of Trieste

June 2020, March 2021, June 2022

Actuary of the Future
Frontal lectures and labs, 48 hours (with Nicola Torelli and Giovanni Millo)
Assicurazioni Generali

26 May – 28 May 2021

Short Course on Football analytics
Frontal virtual lecture, 3 hours (with Ioannis Ntzoufras and Dimitris Karlis, Athens University of Economics and Business)
Athens University of Economics and Business, Department of Statistics

25 November 2021

Tecniche di apprendimento automatico (machine learning) per applicazioni attuariali
Virtual lecture, 4 hours
IVASS (Istituto per la vigilanza delle assicurazioni)

28 September 2021

Machine Learning in ambito assicurativo
Virtual webinar, 4 hours
Generali Italia

17 July 2022

IWSM 2022 Short Course on Statistical Modelling of Football Data
Frontal lecture, 3 hours (with Ioannis Ntzoufras, Athens University of Economics and Business)
University of Trieste

December 2021, 2022

Statistica computazionale progredito
Frontal lectures 3 h (invited by Nicola Sartori, UniPD)
University of Padova.

PhD supervisor

Giovanni Santacatterina, PhD in *Artificial Intelligence and Applied Data Science* (ADSAI), Università degli Studi di Trieste, XXXVIII cycle, 2022-2025. Co-supervisor: Giulio Caravagna.

Roberto Macrì Demartino, PhD in Statistical Sciences, Università degli Studi di Padova, XXXVII cycle, 2021-2024. Co-supervisor: Nicola Torelli.

Awards and Scholarships

Doctoral Scholarship (2014–2017) granted by University of Padua - Padova (Italy).

Winner of the MUR 'Leonardo Da Vinci' call (2020), funded by the Ministry of University and Research for a research period in a foreign research institution.

Computer Skills

R (proficient), WinBUGS (good), SAS (basic), Visual Basic (basic), Java (good), Excel (good), Stan (good). TEX , Microsoft Word.

Language Skills

Mother tongue: Italian
Fluent spoken and written English
Basic spoken and written German

Research Interests

Mixture models
Hierarchical Bayesian models
Models for sports data
Priors' elicitation
Clustering methods
Bayesian replication studies
Bayesian methods for clinical trials
Single cell data applications for genomics
R packages

Presentations: seminars and Conference Talks

ISBA 2016 (International Society for Bayesian Analysis)
Egidi L., Pappadà R., Pauli F. and Torelli N.. Relabelling in Bayesian Mixture Models by Pivotal Units (Poster session). Santa Margherita di Pula (Cagliari), Italy, 13-17 June 2016.

MBC2 (Workshop on Model-Based Clustering and Classification)
Egidi L., Pappadà R., Pauli F. and Torelli N.. Relabelling in Bayesian Mixture Models by Pivotal Units (Poster session). Università degli Studi di Catania, Catania, Italy, 5-7 September 2016.

SISBAYES meeting 2017 (Workshop organized by the permanent working group on Bayesian Statistics of the Italian Statistical Society)
Egidi L., Pauli F. and Torelli N.. A Hierarchical Bayesian Model for the Football Scores Using the Bookmakers Odds (Poster session). Università La Sapienza, Roma, Italy, 7-8 February 2017.

BISP 10 (Workshop on Bayesian Inference in Stochastic Processes)
Egidi L., Pauli F. and Torelli N.. Mixture data-dependent priors (Poster session). Bocconi University, Milano, Italy, 13-15 June 2017.

MathSport International 2017 Conference
Egidi L., Gabry J.S. Bayesian hierarchical models for predicting individual performance in football (soccer) (Talk). Università degli Studi di Padova, Padova, Italy, 26-28 June 2017.

AUEB Sports Analytics Workshop 2017
Egidi L., Pauli F. and Torelli N.. A Hierarchical Bayesian Model for the Football Scores Using the Bookmakers Odds. (Invited talk). Athens University of Economics and Business, Athens, Greece, 7-8 November 2017.

49th Scientific meeting of the Italian Statistical Society
Egidi L., Pauli F. and Torelli N.. Are the shots predictive for the football results? (Invited talk). Palermo, June 20-22 2018.

ISBA 2018 (International Society for Bayesian Analysis)
Egidi L., Pauli F. and Torelli N.. Mixture data-dependent priors (Poster session). Edinburgh, Scottland, 25-29 June 2018.

StanCon 2018
Egidi L., Pauli F. and Torelli N.. Are shots predictive of soccer results? Helsinki, 29-31 August 2018.

AUEB Sports Analytics Workshop 2018
Egidi L., and Gabry J.. Bayesian hierarchical models for predicting individual performance in soccer (Invited talk). Athens University of Economics and Business, Athens, Greece, 26-27 November 2018.

AUEB PhD Seminar
Egidi L., Pappadà R., Pauli F. and Torelli N.. Pivotal methods for Bayesian mixture models and classical k-means algorithm initialization (Invited talk). Athens University of Economics and Business, Athens, Greece, 26-27 November 2018.

Data Science and Social Research Conference 2019
Egidi L., and Torelli N.. Comparing goal-based and result-based approach in modelling football outcomes (Invited talk). IULM University, Milano, Italy, 5 February 2019.

MathSport International 2019 Conference
Egidi L., Ntzoufras I.. Modelling volleyball data using a Bayesian approach (Talk). Athens University of Economics and Business, Athens, Greece, 1-3 July 2018.

Statistics 5
Egidi L., Pauli F. and Torelli N.. Avoiding prior-data conflict via mixture priors (Invited Talk). Aegina, Greece, 6-9 September 2019.

ASA Conference 2019
Egidi L., and Torelli N.. Comparing statistical models and machine learning algorithms in predicting football outcomes (Invited talk). Department of Economics and Management, University of Brescia, Brescia, Italy, 26 September 2019.

StaTalk 2019
Egidi L.. Weapons of mass prediction. Department of Business, Economics, Mathematics and Statistics, University of Trieste Trieste, Italy, 22nd November 2019.

AUEB Sports Analytics Workshop 2019
Egidi L., and Torelli N.. Comparing statistical models and machine learning algorithms in predicting football outcomes (Invited talk). Athens University of Economics and Business, Athens, Greece, 25-26 November 2019.

AUEB PhD Seminar
Egidi L.. Latent discrete parameters in Stan (Invited talk). Athens University of Economics and Business, Athens, Greece, 29 November 2019.

Advances in Statistical Modelling and Inference
Egidi L., Ntzoufras I. (2019) A Bayesian Quest for Finding a Unified Model for Predicting Volleyball Games. Department of Economics and Statistics, University of Udine, Udine, 8 January 2020.

ISBA 2021 (International Society for Bayesian Analysis)
Egidi L., Pauli F., Torelli N. (2021) Avoiding prior-data conflict in regression models via mixture priors. Virtual conference, 28th June 2021.

ISI 2021

Egidi L. (2021). Invited discussion on the session *Sports Satistics* organized by Marica Manisera (University of Brescia), 12th July 2021.

JSM 2021
Egidi L., Pauli F., Torelli N. (2021) Avoiding prior-data conflict in regression models via mixture priors. Virtual conference, 8th August 2021.

CLADAG 2021
Egidi L., Pappadà R., Pauli F., Torelli N. (2021) `pivmet`: pivotal methods for Bayesian relabelling in finite mixture models. Virtual conference, 10th September 2021, University of Firenze

Series of Seminars: AUEB, Roma La Sapienza, Cattolica Sacro Cuore, Simons Foundation
L. Egidi (2022). A Bayesian fairy-tale: the mysteries of the mixtures. Priors, likelihoods, and other 'multi-headed' monsters. March-May 2022.

34th Panhellenic Statistics Conference
L. Egidi (2022). A Bayesian fairy-tale: the mysteries of the mixtures. Priors, likelihoods, and other 'multi-headed' monsters (Invited Talk). Session on *Bayesian Statistics*, organized by Ioannis Ntzoufras (AUEB). 22nd May 2022

SIS 2022
Egidi L. (2022). Invited discussion on the session *Sports Satistics* organized by Marica Manisera (University of Brescia), 24th June 2022.

Stat Data Camp 2022
Egidi L.. Invited by Davide Risso (University of Padova), 26 September 2022.

SIS 2023
Egidi L., Ntzoufras I. (2023). Predictive Bayes factors (contributed), 22nd June 2023.

Statistics@Naples
Egidi L., Consonni G. (2023). Assessing replication success via skeptical mixture priors (contributed), 29th June 2023.

Publications

Papers in refereed journals

- Egidi, L., Pappadà, R., Pauli, F., and Torelli, N. (2018). Relabelling in Bayesian mixture models by pivotal units. *Statistics and Computing*, 28(4), 957-969.
- Egidi L., Gabry J.S. (2018). Bayesian hierarchical models for predicting individual performance in soccer. *Journal of Quantitative Analysis of Sports*, 14(3), 143-157.
- Castelpietra, G., Egidi, L., Caneva, M., Gambino, S., Feresin, T., Mariotto, A., Balestrieri, M., De Leo, D., Marzano, L. (2018). Suicide and suicides attempts in Italian prison epidemiological findings from the Triveneto area, 2010–2016. *International Journal of Law and Psychiatry*, 61, 6-12.

- Egidi L., Pauli F. and Torelli N. (2018). Combining historical data and bookmakers' odds in modelling football scores. *Statistical Modelling*, 18(5-6), 436-459.

- Egidi L., Ntzoufras I. (2020) A Bayesian Quest for Finding a Unified Model for Predicting Volleyball Games. *Journal of the Royal Statistical Society (Series C)*, 69(5), 1307-1336.

- Rispoli, P., Giorgiutti, F., Egidi, L., Cappelletto, B. (2020). Impact of COVID-19 mitigation measures on patients with spine disease in Friuli Venezia Giulia. *Journal of Neurosurgical Sciences,* 64(4), 410-412.

- Egidi L., Torelli N. (2021) Comparing goal-based and result-based approaches in modelling football outcomes. *Social Indicators Research*, 156(2), 801-813.

- Egidi, L., Pauli, F., Torelli, N. (2021) Avoiding prior-data conflict in regression models via mixture priors. *The Canadian Journal of Statistics*, 50(2), 491-510.

- Egidi, L. (2022) Effective sample size for a mixture prior. *Statistics & Probability Letters*, 183, 109335.

- Pastore, M. R., Milan, S., Agolini, R., Egidi, L., Agostini, T., Belfanti, L., Tognetto, D. (2022). How Could Medical and Surgical Treatment Affect the Quality of Life in Glaucoma Patients? A Cross-Sectional Study. *Journal of Clinical Medicine*, 11(24), 7301-7312.

- Egidi, L., Pauli, F., Torelli, N., Zaccarin, S. (2023). Clustering spatial networks through latent mixture models. *Journal of the Royal Statistical Society (Series A)*, 186(1), 137–156.

- Marzi, G., Balzano, M., Egidi, L., Magrini, A. (2023). CLC Estimator: a tool for latent construct estimation via congeneric approaches in survey research. *Multivariate Behavioral Research*, 1-5.

- Egidi, L. (2023). Seconder of the vote of thanks to Narayanan, Kosmidis, and Dellaportas and contribution to the Discussion of 'Flexible marked spatio-temporal point processes with applications to event sequences from association football'. *Journal of the Royal Statistical Society (Series C)*, 72(5), 1129–1130.

Papers in books

- Egidi L., Pappadà R., Pauli F. and Torelli N. (2017). Maxima units search (MUS) algorithm: methodology and applications. *Studies in Theoretical and Applied Statistics*. Subtitle: SIS 2016, Salerno, Italy, June 8-10. ISBN: 978-3-319-73905-2, Springer Book.

Working papers

- Fazia F., Egidi L., Ayoglu B., Beecham A.,, Bitti P.P., Ticca A., Nilsson P., Bernardinelli L., Berzuini C. (2019). Bayesian Mendelian Randomization for incomplete pedigree data, and the characterisation of Multiple Sclerosis proteins. *EUT Edizioni Università di Trieste*, ISBN: 978-88-5511-114-0

Conferences proceedings and abstracts

- Egidi L., Pappadà R., Pauli F. and Torelli N.. Relabelling in Bayesian Mixture Models by Pivotal Units - Una procedura di relabelling in modelli mistura Bayesiani basata su

unità pivotali. Conference Paper, *SIS2016 Proceedings*. ISBN 9788861970618. [48th Scientific Meeting of the Italian Statistical Society, Salerno, 8-10 June 2016].

- Egidi L., Pappadà R., Pauli F. and Torelli N.. Relabelling in Bayesian Mixture Models by Pivotal Units. *ISBA Book of Abstract*, ISBN: 9-788884-679833 . [ISBA 2016 World Meeting, Cagliari, June 13-17, 2016].

- Egidi L., Gabry J.S.. Bayesian hierarchical models for predicting individual performance in football (soccer). Conference Paper, *MathSport International 2017 Conference Proceedings*. ISBN 978-88-6938-058-7. [MathSport International 2017 Conference, Padova, 26-28 June 2017].

- Egidi L., Pauli F. and Torelli N. A Hierarchical Bayesian Model for the Football Scores Using the Bookmakers Odds. *AUEB Sports Analytics Workshop 2017 Book of Abstracts*. [AUEB Sports Analytics Workshop 2017, Athens, 7-8 November 2017].

- Egidi L., Pauli F. and Torelli N. (2018). Are the shots predictive for the football results? Conference Paper, Book of Short Papers, *SIS 2018*, ISBN: 9788891910233.

- Egidi, L., Pappadà, R., Pauli, F., Torelli, N. (2018). K-means seeding via MUS algorithm. Conference Paper, Book of Short Papers, *SIS2018*, ISBN: 9788891910233.

- Egidi, L., Pappadà, R., Pauli, F., Torelli, N. (2019). Pivotal seeding for K-means based on clustering ensembles. Conference Paper, Book of Short Papers, *SIS 2019*. ISBN: 9788891915108.

- Egidi, L., Ntzoufras, I. (2019). Modelling volleyball data using a Bayesian approach. Conference Paper, *MathSport International 2019 Conference Proceedings*. ISBN: 978-618-5036-53-9.

- Egidi, L., Pappadà, R., Pauli, F., Torelli, N. (2019). Consensus clustering via pivotal methods. Conference Paper, Book of Abstracts, *Cladag 2019*. ISBN: 978-88-8317-108-6

- Egidi, L., Torelli, N. (2019). Comparing statistical models and machine learning algorithms in predicting football outcomes. Book of Short Papers, *ASA CONFERENCE 2019, Statistics for Health and Well-being*. ISBN: 978-88-5495-135-8.

- Egidi L. (2020) Prediction is not everything, but everything is prediction. Book of Short Papers, *SIS 2020*. ISBN: 9788891910776.

- Egidi L., Pappadà R., Pauli F., Torelli N. (2021). `pivmet`: pivotal methods for Bayesian relabelling in finite mixture models. Book of Short Papers, *Cladag 2021*, ISBN: 978-88-5518-340-6.

- Macrì Demartino, R., Egidi, L., Torelli, N. (2023). The use of Bradley-Terry comparisons in statistical and machine learning models to predict football results. *Statistics and Data Science*, University of Pavia. Book of Short Papers, ISBN: 978-88-6952-170-6.

- Egidi L., Ntzoufras I. (2023). Predictive Bayes factors. *Università Politecnica delle Marche*. Book of Short Papers, *SIS 2023*. ISBN: 9788891935618.

- Macrì Demartino, R., Egidi, L., Torelli, N. (2023). Power priors elicitation through Bayes factors. *Università Politecnica delle Marche*. Book of Short Papers, *SIS 2023*. ISBN: 9788891935618.

Monography

- Egidi L. (2018). Developments in Bayesian Hierarchical Models and Prior Specification with Application to Analysis of Soccer Data. *PhD Thesis*, Università degli Studi di Padova.

R packages

- Egidi L., Pappadà, R., Pauli F., Torelli N. (2019). `pivmet` 0.5.0. Available at: `https://CRAN.R-project.org/package=pivmet`.
- Egidi L. (2023). `footBayes` 0.2.0. Available at: `https://CRAN.R-project.org/package=footBayes`

R Shiny apps

- Egidi L. (2019). Russian 2018 World Cup Roulette. Here available: `https://plsdeams.shinyapps.io/calcio/`.
- Balzano M., Egidi L., Marzi G. (2022). CLC estimator: an R package and related Shiny app to compute latent constructs based on congeneric approaches. Here available: `https://plsdeams.shinyapps.io/CLC_Estimator/`.

Revision for scientific journals

Biometrical Journal
Statistics and Probability Letters
Journal of Operational Research Society
Journal of Quantitative Analysis in Sports
Statistical Methods and Applications
Kunstliche Intelligenz
Risks
Journal of Sports Analytics
Biostatistics
Journal of the Royal Statistical Society (Series A)
Journal of the Royal Statistical Society (Series C)
Computational Statistics and Data Analysis

Chair and session organizer

- SIS 2019, title of the session: Statistics in Sports
- SIS 2020, title of the session: How deep is your plot? Young SIS and deep statistical learning.
- Thematic day on Covid-19, satellite event of SIS 2021.
- COMPSTAT 2022, title of the session: Sports Statistics.

Organizing committee

- StaTalk 2019 (University of Trieste)
- International Workshop on Statistical Modelling (IWSM) 2022 (University of Trieste)
- SIS 2021

Thesis supervisor or co-supervisor

Mitja Briscik. Thesis title: *Modelli statistici per la previsione dei risultati calcistici: un' applicazione alla Uefa Champion's League* (Bachelor Thesis in Statistica e Informatica per

l'azienda, la finanza e l'assicurazione. University of Trieste, Academic year: 2018-2019).

Giuseppe Sassano. Thesis Title: *Modelli statistici per la previsione di risultati nel calcio: i tiri in porta come veicolo di informazioni rilevanti* (Master Thesis in Scienze Statistiche, University of Padova, Academic year: 2018-2019).

Anna Scussolin. Thesis Title: *Un' applicazione dei modelli gerarchici alla valutazione dell' assicurabilità nelle linee di credito* (Master Thesis in Scienze Statistiche e Attuariali, University of Trieste. Academic year: 2018-2019).

Francesco Guglielmo. Thesis title: *Modelli statistici per l'analisi dei dati sull'epidemia di Sars-CoV-2 in Italia* (Master thesis in Scienze Statistiche e Attuariali, University of Trieste. Academic year: 2019/2020).

Federico Spatola. Thesis title: *Statistical models for analysing SARS-CoV-2 epidemics in Italy* (Master thesis in Scienze Statistiche e Attuariali, University of Trieste. Academic year: 2019/2020).

Cesare Farina Busetto. Thesis Title: *Sviluppo e comparazione di modelli statistici per la previsione di risultati calcistici* (Master Thesis in Scienze Statistiche, University of Padova. Academic year: 2019-2020).

Niccolò Rossi. Thesis title: *Expected Goals in Football: Development of Statistical Learning models with application to Matches Results* (Master thesis in Data Science and Scientific Computing, University of Trieste. Academic year: 2019-2020).

Laura Balasso. Thesis title: *A Bayesian Approach For The Estimation Of Covid-19 Effective Reproduction Number: An Application To Italian Regions* (Master thesis in Data Science and Scientific Computing, University of Trieste. Academic year: 2019-2020).

Lorenzo Fresco. Thesis title: *A statistical learning approach for cross contextual time-series forecasting* (Master thesis in Data Science and Scientific Computing, University of Trieste. Academic year: 2019-2020).

Vincenzo Digiaro. Thesis title: *Modelli statistici per la previsione dei riscatti in un prodotto vita* (Master thesis in Scienze Statistiche e Attuariali, University of Trieste. Academic year: 2019/2020).

Giacomo Coslevaz. Thesis title: *Statistical and Machine Learning models in football match prediction* (Master thesis in Scienze Statistiche e Attuariali, University of Trieste. Academic year: 2020/2021).

Andrea Scapini. Thesis title: *Reti neurali applicate alla previsione di risultati calcistici.* (Master in Scienze Statistiche e Attuariali, University of Trieste. Academic year: 2021/2022).
Alexa Pasquale. Thesis title: *Metodi statistici Bayesiani per l'incorporazione dell'informazione storica nell'ambito di studi clinici.* (Master in Scienze Statistiche e Attuariali, University of Trieste. Academic year: 2021/2022).

Mattia Sclabas. Thesis title: *Un confronto tra modelli statistici classici e bayesiani per la previsione del voto elettorale in Italia* (Master in Scienze Statistiche e Attuariali, University of Trieste. Academic year: 2021/2022.

Giancluca Iacubino. Thesis title: *Modelli statistici di previsione in ambito calcistico: un*

approccio result-based mediante tecniche di apprendimento automatico (Master in Scienze Statistiche e Attuariali, University of Trieste. Academic year: 2021/2022).

Giulio Fantuzzi. Thesis title: *Modelli statistici per la previsione di risultati calcistici: implementazione in R del modello Dixon–Coles ed applicazioni al campionato di Serie A 2021-2022* (Bachelor degree in Statistica e Informatica per l'Azienda, la Finanza e l'Assicurazione, University of Trieste. Academic year: 2022/2023).

Marco Pasetti. Thesis title: *L'utilizzo della telematica in ambito assicurativo: tecniche tradizionali e di machine learning per la tariffazione RC Auto* (Master in Scienze Statistiche e Attuariali, University of Trieste. Academic year: 2022/2023).

Lorenzo Turrini. Thesis title: *Approcci statistici al cambiamento climatico: studio della letteratura e alcuni modelli preliminari* (Master in Scienze Statistiche e Attuariali, University of Trieste. Academic year: 2022/2023).

Marco Davide Ceruti. Thesis title: *Analisi dei dati calcistici: un confronto tra modelli statistici classici e con inflazione di pareggi* (Master in Scienze Statistiche e Attuariali, University of Trieste. Academic year: 2022/2023).

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Trieste, December 28, 2023

Leonardo Egidi