europass

Susanna Gentile

EDUCATION AND TRAINING

Ph.D. in Methodological Statistics
Sapienza University of Rome [01/11/2022 – Current]

Field(s) of study: Statistical Science

M.Sc. in Statistical Sciences
Sapienza University of Rome [08/2019 – 20/01/2022]

Field(s) of study: Statistical sciences | Biostatistic
Final grade: 110/110 with honors
Thesis: Optimal sample size for single-arm studies with discrete data: power analysis using exact methods

Erasmus+ Scolarship
University of Helsinki [01/2020 – 05/2020]

B.Sc. in Statistica Gestionale
Sapienza University of Rome [2016 – 17/07/2019]

City: Rome
Country: Italy
Field(s) of study: Statistical Sciences
Final grade: 110/110 with honors
Thesis: Intervalli di confidenza asintotici per il rischio relativo: valutazione esatta della probabilità di copertura

High School Diploma
Liceo Classico T. Tasso [2009 – 2014]

WORK EXPERIENCE

Visiting Research Scholar
Dana-Farber Cancer Institute - Department of Data Science [10/2023 – Current]

Research project: "Fast approximation of operating characteristics in clinical trials"
Supervisor: Prof. Lorenzo Trippa (Harvard School of Public Health)

Teaching Assistant
Department of Statistical Sciences, Sapienza University of Rome [02/2023 – Current]

City: Rome
Country: Italy

Teaching assistant in Statistical Inference, Prof. Luca Tardella

Tutor
Sapienza University of Rome - Department of Statistical Sciences [08/06/2022 – 31/10/2022]

Assistance during the Interfaculty Advanced Training Course “Metodi statistici per la ricerca e la pratica biomedica”

Research Collaborator
Sapienza University of Rome - Department of Statistical Sciences [08/02/2022 – 07/04/2022]

- Task: "Development of interactive software tools for the implementation of Bayesian methods for the design of a clinical study."
- Research Project: "Bayesian strategies for interim monitoring of clinical studies". PI: Prof. Valeria Sambucini

Student Collaboration Scholarship
Sapienza University of Rome - Department of Statistical Sciences [27/01/2019 – 30/12/2021]

Computer Lab assistant

LANGUAGE SKILLS

Mother tongue(s): **Italian**

Other language(s):

English

LISTENING C2 **READING** C2 **WRITING** C1

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

CERTIFICATIONS AND LICENSES

IELTS
[16/06/2022]

Overall Score: 8.0 (CEFR Level C1)

Certificate of Advanced English (CAE)
[07/2016]

Overall Score: 185 (Grade C)

FURTHER TRAINING ACTIVITIES

Bayesian Methods for Clinical Trials
[22/05/2023 – 23/05/2023]

1. Held by the University of Cambridge - MRC Biostatistics Unit
2. Lecturers: Prof. Thomas Jaki, Dr Pavel Mozgunov, Dr Haiyan Zheng

Causal Inference Summer School
[11/07/2022 – 15/07/2022]

- Held by Department of Mathematics - University of Trento
- Lecturers: Alessandra Mattei, Veronica Ballerini (University of Florence)

CONFERENCES AND SEMINARS

52nd Scientific Meeting of the Italian Statistical Society
[Ancona, 21/06/2023 – 23/06/2023]

Contributed talk: "Optimal two-stage design based on error rates under a Bayesian perspective"

51st Scientific Meeting of the Italian Statistical Society
[Caserta, 22/06/2022 – 24/06/2022]

Contributed talk: "A fully Bayesian approach for sample size

determination of Poisson clinical trials." (in collaboration with V. Sambucini)

PUBLICATIONS

Articles in refereed journals

1. **Susanna Gentile,** Valeria Sambucini (2024), "Frequentist and Bayesian Sample Size Determination for Single-Arm Clinical Trials Based on a Binary Response Variable: A Shiny App to Implement Exact Methods". *Open Journal of Statistics,* 14(*1*), 90-105
2. **Susanna Gentile,** Valeria Sambucini (2023), "Exact sample size determination for a single Poisson random sample." *Bio metrical Journal,* 2200183

Refereed conference proceedings

1. **Susanna Gentile**, Valeria Sambucini (2023), "Optimal two-stage design based on error rates under a Bayesian perspective." ***Book of Short Papers SIS 2023,*** Editors: F. Chelli, M. Ciommi, S. Ingrassia, F. Mariani, M. Recchioni
2. **Susanna Gentile**, Valeria Sambucini (2022), "A fully Bayesian approach for sample size determination of Poisson clinical trials.". ***Book of Short Papers SIS 2022,*** Editors: A. Balzanella, M. Bini, C. Cavicchia, R. Verde

DIGITAL SKILLS

R, R studio, R Markdown / RShiny / LaTex / SAS / MatLab (basics) / Windows / MacOs / Microsoft Office

SCOLARSHIP AND FUNDINGS

Sapienza University funding "Progetti per Avvio alla Ricerca"

[2023]

Innovative Bayesian methodologies for early stage clinical trials.