

**Thematic Course – PhD in
“Scienze Economiche e Statistiche” / “Economics, Business and Statistics”
Department of “Scienze Economiche, Aziendali e Statistiche”
Università di Palermo**

Academic Year	2023-24
Subject	Integrating Stata with other software applications: solutions for automatic reporting and data entry
Instructor(s)	Giovanni Luca Lo Magno
Course description	<p>The seminar introduces the Ph.D. students to the Stata-related software programs developed by Giovanni Lo Magno that allow Stata to be integrated with other software applications. In particular, the seminar focuses on the integration between Stata and Microsoft Word or Excel.</p> <p>The seminar mainly deals with solutions for automatic reporting, namely tools that allows data analysts to effortlessly fetch data and results from the data analysis software (e.g., Stata) and automatically put them in a final report (e.g., a Microsoft Word document). Secondly, it is discussed how to exploit the integration between Stata and other software applications for data entry.</p> <p>Issues related to the workflow of data analysis, automatic reporting, literate programming and reproducible research will also be discussed.</p>
Learning Objectives	<ul style="list-style-type: none"> • Make the students aware of the issues related to the workflow of data analysis and its automation. • Learn something about several software solutions that can ease automatic reporting and data entry in Stata. • Getting started with the Stata Automation object and exploit it in Microsoft Office with the Visual Basic for Application (VBA) programming language.
Suggested readings	<ul style="list-style-type: none"> • Lo Magno, G. L. (2013). Sar: Automatic generation of statistical reports using Stata and Microsoft Word for Windows, <i>Stata Journal</i>, 13(1), https://journals.sagepub.com/doi/pdf/10.1177/1536867X1301300104 • Lo Magno, G. L. (2017). Connecting Stata to the rest of the world via SWire: several applications including SWordy, an Office add-in to facilitate interaction between Microsoft Word and Stata, <i>Invited speaker keynote at the 2017 German Stata Users Group Meeting</i>, Berlin, June 2023, https://www.stata.com/meeting/germany17/slides/Germany17_LoMagno.pdf • Lo Magno, G. L. (2023). Integrating Microsoft Office and Stata, <i>Seminar at the London School of Hygiene and Tropical Medicine</i>, 2nd October 2023, London, https://www.slideshare.net/GiovanniMagno/integrating-microsoft-office-and-statapdf
Course Activity (hrs)	3
Credits	-
Assessment Method	<p>Seminar objectives will be considered achieved if:</p> <ol style="list-style-type: none"> 1. The student proves to be able to complete the following session aimed to connect Stata to Excel: (a) activate the Stata Automation object, (b) check the Stata Automation object running status and (c) write a simple VBA function in Excel to retrieve data from Stata. 2. During the presentation the student participates with questions, remarks and suggestions related to improvements of the discussed software applications.
Teaching Methods	<ul style="list-style-type: none"> • Presentation slides. • Live demonstrations of the discussed software programs. • Students’ activities consisting of guided usage of the proposed software solutions for integrating Stata and Excel.
Calendar	1 st December 2023 - 9.00/12.00
Contacts	lomagno.gl@virgilio.it