

Our purpose is to provide our students with the proper training and ease of access to the software. The new Bloomberg terminals are located in RH517A. Our Bloomberg TAs are well-trained to best answer all your questions. They can be reached in Brooklyn and Broad Street locations from 10AM to 4PM, Monday to Thursday. We provide the ease of accesses to the following software and application tools. Kindly contact us if you have any questions at fre@poly.edu or (718) 260-3279.

▪ EViews

A combination of power and ease-of-use make EViews 6 the ideal package for anyone working with time series, cross-section, or longitudinal data. With EViews, you can quickly and efficiently manage your data, perform econometric and statistical analysis, generate forecasts or model simulations, and produce high quality graphs and tables for publication or inclusion in other applications. Featuring an innovative graphical object-oriented user-interface and a sophisticated analysis engine, EViews blends the best of modern software technology with the features you've always wanted. The result is a state-of-the art program that offers unprecedented power within a flexible, easy-to-use interface. Find out for yourself why EViews is the worldwide leader in Windows-based econometric software and the choice of those who demand the very best.

- A New Kind of User Interface
- Powerful Analytic Tools
- Sophisticated Data Management
- Presentation Quality Output
- Traditional Command Line and Programming Interface
- Data Capacity and System Requirements

▪ FinCAD

Industry Standard Financial Analytics
FINCAD Analytics are cross-asset class, market-tested analytics for valuation and risk management of financial securities and derivatives. FINCAD provides the most transparent solution in the industry with comprehensive documentation of all models, calculation methodologies, and references. This gives you the ability to verify and validate every aspect of the valuation.

- Value or price derivatives

- Measure counterparty exposure and risk
- Perform scenario analysis and stress testing
- Comply with regulatory requirements (i.e. FAS 157, 133, IAS 39)
- Confirm dealer pricing
- Benchmark against other systems
- Operates within Microsoft® Excel
- Includes over 200 professionally-designed workbooks
- Search or Browse by keyword, asset class, Recently Used or Favorites
- Workbooks are integrated with FINCAD Market Data and Bloomberg Finance LP*

▪ Mathematica

From computation to visualization, development to deployment, *Mathematica 7* builds on 20 years of innovation to deliver one vision: the ultimate technical application and environment. *Mathematica 7* includes over 500 new functions and 12 additional application areas, all seamlessly integrated in one system that gives you unprecedented workflow, coherence, and reliability.

- Built-in Digital Image Processing & Analysis
- Built-in Parallel Computing
- Visualization & Graphics
- Mathematics & Algorithms
- Computable Data
- Data Manipulation
- Core Language
- Interface & User Experience

▪ Matlab

MATLAB® is a high-level technical computing language and interactive environment for algorithm development, data visualization, data analysis, and numeric computation. Using the MATLAB product, you can solve technical computing problems faster than with traditional programming languages, such as C, C++, and Fortran. You can use MATLAB in a wide range of applications, including signal and image processing, communications, control design, test and measurement, financial modeling and analysis, and computational biology. Add-on toolboxes (collections of special-purpose MATLAB functions, available

separately) extend the MATLAB environment to solve particular classes of problems in these application areas. MATLAB provides a number of features for documenting and sharing your work. You can integrate your MATLAB code with other languages and applications, and distribute your MATLAB algorithms and applications.

- High-level language for technical computing
- Development environment for managing code, files, and data
- Interactive tools for iterative exploration, design, and problem solving
- Mathematical functions for linear algebra, statistics, Fourier analysis, filtering, optimization, and numerical integration
- 2-D and 3-D graphics functions for visualizing data
- Tools for building custom graphical user interfaces
- Functions for integrating MATLAB based algorithms with external applications and languages, such as C, C++, Fortran, Java, COM, and Microsoft Excel

▪ Palisade @Risk

@RISK performs risk analysis using Monte Carlo simulation to show you many possible outcomes in your Microsoft Excel spreadsheet—and tells you how likely they are to occur. This means you can judge which risks to take and which ones to avoid, allowing for the best decision making under uncertainty. With @RISK, you can answer questions like, “What is the probability of profit exceeding \$10 million?” or “What are the chances of losing money on this venture?”

- Set up the Model
- Run the Simulation
- Understand the Risk

▪ R

R is a language and environment for statistical computing and graphics. It is a GNU project which is similar to the S language and environment which was developed at Bell Laboratories (formerly AT&T, now Lucent Technologies) by John Chambers and colleagues. R can be considered as a different implementation of S. There are some important

differences, but much code written for S runs unaltered under R. R provides a wide variety of statistical (linear and nonlinear modelling, classical statistical tests, time-series analysis, classification, clustering, ...) and graphical techniques, and is highly extensible. The S language is often the vehicle of choice for research in statistical methodology, and R provides an Open Source route to participation in that activity.

One of R's strengths is the ease with which well-designed publication-quality plots can be produced, including mathematical symbols and formulae where needed. Great care has been taken over the defaults for the minor design choices in graphics, but the user retains full control. R is available as Free Software under the terms of the Free Software Foundation's GNU General Public License in source code form. It compiles and runs on a wide variety of UNIX platforms and similar systems (including FreeBSD and Linux), Windows and MacOS.

▪ S-Plus

The practice of using analytics across all functional areas of the business enterprise is recognized as a key competitive advantage by market leaders across all industries. While any company can look at the simple statistics of its day-to-day operations, industry leaders are utilizing predictive analytics to identify or create and exploit their advantages in operations, customer management, production and research. That is why market leaders around the world use S-PLUS. S-PLUS 8 continues to deliver the advantages of an open architecture, scalability and flexibility to integrate advanced analytics into your everyday business processes. Superior graphic output and the ability to employ cutting edge statistics ensure you are armed with the knowledge to act at every critical decision point and clearly communicate to all audiences regardless of their level of technical expertise.

- Deliver Analytics within Business Processes
- Prototype, Test and Deploy Faster
- Communicate Effectively with Advanced Graphics and Reporting
- Commercial Support for Cutting-Edge Statistics

▪ STATA

Stata is a complete, integrated statistical package that provides everything you need for data analysis, data management, and graphics. Stata is not sold in pieces, which means you get everything you need in one package without annual license fees. Stata 11 adds many new features such as multiple imputation, factor variables, generalized method of moments (GMM), competing-risks regression, state-space modeling, predictive margins, a Variables Manager, and more. Find out more about these features at [New in Stata 11](#).

- Fast, accurate, and easy to use
- Broad suite of statistical capabilities
- Complete data-management facilities
- Publication-quality graphics
- Responsive and extensible
- Matrix programming—Mata
- Cross-platform compatible
- Complete documentation and other publications
- Technical support and learning resources
- Widely used
- Affordable