TAIR Summer Workshops
Summer 2018
July 27, 2018
http://regonline.com/tairsummer2018

Morning Session
9:00am-Noon

Workshop	Title	Abstract	Track	Level
W1	Demystifying Predictive Analytics	Predictive analytics has become a very popular technique in analyzing large data for trends. There is a significant interest among educational institutes in applying predictive analytics to improve student performance and outcomes. This presentation will explain the underlying principles of Predictive Analytics and how it can be used in analysis at IR offices in smaller scales with limited resources. Presenter: Savithra Eratne, San Antonio College	Data Analysis & Methodology	Advanced
W2	Using Excel for Data Analysis	Excel has many features such as Dashboard development with Slicers, add-in functions for data analysis and statistics. During TAIR 2018, I presented how to create a Dashboard using Excel and create interactive analysis. This workshop will be how to add extended analytic functionality once you have created you dashboard in EXCEL. Presenter: Jane Lewis, Kilgore College	Data Analysis & Methodology	Intermediate
W3	Visualizing Data to Tell a Story: Getting Your Message Across to a Broad and Bored Audience	As data people, we are experts when it comes to spreadsheets and number crunching. Most often, our target audience do not share our data expertise, but need to use the data to make institution-wide decisions. Therefore, it is critically important for us to present data in a way that is a) comprehensive and accurate and b) interesting and easy to follow. This workshop will explore strategies of data visualization in order to create impactful and captivating stories with your data. Presenter: Nazly Dyer, University of Houston - Downtown	Presentation and Report Tools and Skills	Beginning

W4	Set Up for Success: Qualtrics Surveying Design and Functionality	Are you tired of cloning the same survey with minimal report-out capabilities and with excessive back-end production in programs like Excel or SPSS? Qualtrics is a dynamic surveying platform that is designed to be a comprehensive research tool. Getting beyond the preliminary uses of this system is the key to tapping into Qualtrics' full functionality and potential. This workshop provides scalable strategies for gathering and analyzing data in medium to large universities. Presenter: Bryce Hanta, University of Houston - Downtown	Technical Tools and Skills	Beginning/ Intermediate
W5	Data Visualizations using Power BI: for Beginners	Are you interested in easily creating powerful and scalable dashboards? Learn the fundamentals of Power BI and turn those tables and spreadsheets into visualizations so you can awe your provost, administrators, and faculty with appropriate information. In this workshop, participants will learn the basics of Power BI through hands-on exercises using higher education data. Come learn to connect to data, create different types of visualizations and build interactive dashboards. Topics include Power BI Concepts, Connecting to Data, Interactive Dashboards, Filtering/Sorting Data and more! Presenters: Fikrewold Bitew, University of Texas at San Antonio Jinny Case, University of Texas at San Antonino Mahmoud Abunawas, University of Texas at San Antonio	Presentation and Report Tools and Skills	Beginning
W6	SAS Programming for Beginners	Institutional researchers collect, analyze, interpret, and report data and information. SAS is one of the leading software tools used to perform data manipulation, information storage and retrieval, statistical analysis, and report writing. SAS programming includes fourth-generation programming language and ready-to-use programs called procedures. Knowing SAS programming will empower institutional researchers with advanced methods and tools in data science. This workshop will introduce participants to SAS programming and offer practical examples and exercises. Attendees need no prior knowledge of SAS for this workshop. The workshop will cover how to read raw data into SAS, perform data manipulations, combine tables, and use SAS procedures to report data and to perform descriptive statistics. The workshop will briefly cover SAS SQL programming and demonstrate how to connect live databases to SAS and integrate those data into analyses. Participants	Data Analysis & Methodology	Beginning/ Intermediate

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		will engage in discussions and exercises about various applications of SAS programming used in institutional research to easily apply advanced data science techniques. Base SAS is needed to complete this workshop. A trial version is available for free at https://www.sas.com/en_us/software/university-edition/download-software.html Presenter: Veeranand Konangi, Texas A&M Central-Texas		

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Afternoon Session
12:45pm-3:45pm

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Workshop	Title	Abstract	Track	Level
W7	Data Presentation and Power Point Use	We at Institutional Research are always called upon to present the data after all the data gathering and analysis. It is always a challenge to provide the analysis to the audience as just a publication of the numbers create more questions than answers. This workshop aims at showing how one to two page summary reports, posters and power point presentations can be used to reach the different strata of the college community. Presenter: Presenter: Savithra Eratne, San Antonio College	Presentation and Report Tools and Skills	Intermediate
W8	Project Management 101 - A Plan for Success	Today's IR offices find themselves in great demand from multiple stakeholders. Data requests come at higher volumes and with increasingly urgency. IR offices now find themselves at the center of institutional and, state policy decisions, and with work that is typically project-based and cross-over between IR professionals and others, it is imperative for IR managers to implement tools to facilitate efficient work-flow. This session will demonstrate a selection of productivity tools, including Gnatt Charts, & Asana, giving examples of how these tools have been used to manage IR projects. Participants will leave with an action plan for implementing one or more project management tools in their IR offices. Presenter: David Brown, North Central Texas College	IR Office Management	Beginning

W9	EXCELling at Dashboards: An Introduction to Using Macros to Create an Interactive Dashboard	Are you continually updating the same reports for customers and would like to streamline this process but don't know how? Would you like to give your end-users the ability to do some of their own data mining but don't have Tableau? Then please consider attending this workshop where you will learn how to create an interactive dashboard in Excel using pivot tables, slicers, macros, and action buttons. Presenter: Teresa Isbell, Dallas County Community College District	Technical Tools and Skills	Intermediate
W10	Assessment, Program Review, Measuring the Important and Learning Something In the Process	This workshop is designed to help IR/IE staff develop or refine an assessment program for the institutional research/effectiveness office, to integrate that assessment program with a program review process based on the CAS standards for Institutional Research Offices, and make the evaluator at your next SACSCOC reaffirmation smile. Participants will leave with a fleshed out assessment plan and a draft plan for program review. While the workshop will focus on assessment and program review in the context of IR and IE, principles can be applied to the assessment and review of any administrative office. Presenter: Lea Campbell, University of Houston - Downtown	Assessment	Beginning, Intermediate, Advanced
W11	Analysis of Variance...Plus More	This workshop will cover the basics of analysis of variance (ANOVA), with special attention given to how this statistical technique can be applied to educational data. In addition to examining how analysis of variance is used to identify average differences among multiple groups/categories, the session will also explore more advanced ANOVA-related concepts, such as Tukey's test and the Kruskal-Wallis test. The Tukey method is used to focus the results of ANOVA on material group differences, while the Kruskal-Wallis test is used in place of ANOVA when the data involved is not "normal" such as in rankings or survey data. The workshop is designed for both those unfamiliar with ANOVA and those wishing to enhance their ability to perform ANOVA-related analyses. The only pre-requisites are a basic proficiency with Excel (selecting data, applying/creating formulas, etc.) and an understanding of the statistical concepts of mean and variance. Participants will use their laptops and Excel to apply the techniques discussed. Of course, while Excel is a widely-used tool that is helpful in conveying	Data Analysis & Methodology	Beginning/ Intermediate

		the nuts and bolts of these analyses, they can certainly be implemented in other software packages as well (SAS, SPSS, R, etc.). Presenter: Rion McDonald, University of North Texas		
W12	Creating a Coding Library	This workshop introduces SAS users, with at least a basic understanding of SAS data sets, to the SAS SQL Procedures that can be used in creating a code library. Creating and maintaining a code library to catalog your programming resources can reduce project development time and improve the reliability of your software. A code library will permit team members to quickly locate existing resources instead of reinventing the wheel. By recycling code that has already been tested, you can safely reduce the time devoted to testing. Cataloging your code can also enable you to track customers who use a given module so that their systems can be updated should the module be revised in the future. This workshop will cover basic table and view uses, joining in SQL, using Coalesce, and imbedding select statements. Presenter: John Carroll, Texas A&M University-Central Texas	Technical Tools and Skills	Intermediate