

IDCJ Evaluation Department presents.

**25<sup>th</sup> Professional Statistical Workshop**

~From basics to Advanced Techniques in two days + Theory &amp; Practice of Impact Evaluation (5 designs)~

“Anyone can understand without fail and you can be a professional !!”

Date : 2020 December 22 (Tue) and 23 (Wed) 9:30-18:00 (Japan Time (JST))

Minimum Attendants for implementation:10 people

Language : English (Instructors allow attendants to use Japanese after their lectures and in Counseling time in the last day)

Instructor : Ryo SASAKI, Ph.D.in Evaluation, Western Michigan University (USA) (Senior Researcher, IDCJ Inc.)

Keiichi TAKAKI, Ph.D. in Sociology, Stanford University (USA) (Bunsekiya Co.Ltd.)

Planning and Workshop Management : Hiroyo ONOZATO (IDCJ)

Venue: Zoom. You can access anywhere in the world.

Time table: As below. The session may finish earlier or later depending on the progress.



**Certificate of Completion (English, instructor-signed)**  
*is awarded after an attendant submit the sheet recording his/her attendance. You can easily add it with your resume by PDF format you generate by yourself.*

回	日時			講師
2020 December 22 (Tue)	9:30-12:30		Presentation of Impact Evaluation Case Studies (1) Before-after comparison design      Most simple (2) Interrupted Time-series design (3) Generic control design (4) Matched control design (5) RCT (Randomized control trial)      Most rigorous	Ryo SASAKI
	13:30-16:00		(1) Histogram, average and standard deviation Excel and hand calculation.	Ryo SASAKI
	13:30-16:00		(2) Compare with the previous situation (Paired t-test) Excel, hand calculation, practices & how to read academic papers	Ryo SASAKI
	13:30-16:00		(3) Compare with the neighbors (Two-group t-test) Excel, hand calculation, practices & how to read academic papers	Ryo SASAKI
	16:00-17:00		(4) Compare the ratio of “Yes” and “No” (Chi-square test) Excel, hand calculation, practices & how to read academic papers	Ryo SASAKI
	17:00-18:00		Spare session (We may extend the above sessions in case time is not enough)	Ryo SASAKI
2020 December 23 (Wed)	9:30-10:30		(5) Multiple regression with cross-section data. Excel, practices, and how to read academic papers	Ryo SASAKI
	10:30-12:30 5th session		(6) Hand calculation of multiple regression You will hand-calculate F, R <sup>2</sup> , coefficient, t, p and everything !!	Ryo SASAKI
	13:30-15:30		(7) Multiple regression with time-series data. Excel, hand practices & how to read academic papers	Ryo SASAKI
	15:30-16:30 Spare time		Spare session (We may extend the above sessions in case time is not enough)	Ryo SASAKI
	16:30-18:00		(8) Practice of statistical data analysis at a private IT firm (9) Counseling time (30 minutes x 2 attendants)	Keichi TAKAKI Ryo SASAKI

### **Prerequisites**

- (1) You should be able to implement addition, subtraction, multiplication, division (+, —, ÷, ×).
- (2) You should have experience in using Microsoft Excel: (i) You should be able to input numbers smoothly. (ii) You should have experience in using “Auto-sum” icon.
- (3) You should be able to prepare a Windows OS personal computer.

Note: “Excel Mobile for Tablet” is not acceptable because its version does not have Analysis Tools.

### **Necessary items to bring**

- (i) A Windows OS personal computer (It is preferable that CPU is Core-i5 or faster).
- (ii) A monitor or another personal computer (Its screen size should larger than 12 inch).
- (iii) Writing tools (pen or pencil, high-light pen and an eraser)
- (iv) A hand calculator (Smartphone is acceptable).

### **Fee, Register and Contact**

Fee: You can register and pay by Peatix

Full two days participation: JPY 29,000

Only 1st session (“Presentation of Impact Evaluation Case Studies”): JPY 8,000

Contact: The following IDCJ website. Contact person is Ryo SASAKI.

<https://www.idcj.jp/seminar/statistical-analysis-workshop.html>