

## ***Lefty-Righty Experiment: A Group Project for an Individual Grade***

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### ***Abstract***

A pedagogical hurdle of many hybrid approaches for teaching statistical testing using statistical programs such as SPSS, SAS, JMP, or R, and also of traditional textbooks is that theory and practice are disjointly presented. We have written statistical apps with GeoGebra that concurrently demonstrate how to do essential statistical calculations and why these tests work. In this paper, I will present a statistics project in which students infer the percentage of left-handed people and test other hypotheses, for example how fast right- or left-handed people write. I also present how instructors can measure the individual work of each student through this group project.



**Tuyetdong Phan-Yamada** is a math instructor at California State University, Los Angeles and Glendale Community College. She earned her undergraduate degree from University of California, Irvine and master's degree from California State University, Los Angeles. She enjoys building interactive graphical illustrations with GeoGebra, which she integrates into her lesson plans in trigonometry, geometry, statistics, and calculus courses. She has also extended her computational activities from the classroom to industry practice as a summer 2014 faculty research fellow at JPL, Pasadena. She is also hosting the Ignite Event at CMC3-South Spring Annual Conference.