

**STATHAND: A MOBILE APPLICATION TO SUPPORT STUDENTS' STATISTICAL
DECISION MAKING**

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Quantitative research methods underpin professional competence across many disciplines. Despite this, many students struggle with the process of selecting appropriate statistics for common research questions, hypotheses and data types. StatHand (see <https://stathand.net>) is a free cross-platform application that aids this process by prompting students to focus systematically on each structural feature of their research problem. Student focus groups (N = 25) and instructor interviews (N = 9) support the subjective appeal and usability of StatHand. Furthermore, an experimental evaluation (N = 215) found that StatHand promotes decision making accuracy, reduces cognitive load, and is instructionally efficient relative to a range of alternative statistical decision making aids. StatHand can be readily integrated into a variety of classroom learning activities.