

ROLAND B. STARK

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ACCOMPLISHMENTS

- ◆ Advanced organizations' research efforts by systematizing data collection, analysis, and reporting.
- ◆ Introduced new statistical and behavioral-economics techniques to improve the accuracy of both predictive and causal analyses.
- ◆ Uncovered the drivers of decisions on college application, enrollment, retention, and donations.
- ◆ Created predictive models enabling hospitals to target interventions to patients most in need.
- ◆ Co-authored many peer-reviewed publications including a 2020 paper in *The American Statistician*.

RESEARCH and ANALYTIC EXPERIENCE

Statistician and Research Consultant, INTEGRATIVE STATISTICS, Waltham & Maynard, MA (2001-present)

- ◆ Assist health and higher-education institutions, nonprofits, businesses, attorneys, and academics with:
 - Research design, from audience needs and budget constraints to power analysis, psychometrics, and techniques of behavioral economics.
 - Data collection and data management; effective use of survey and statistical software.
 - Resourceful data analysis; multivariate methods such as regression, binary and multinomial logistic modeling, factor and cluster analysis, and Monte Carlo simulation.
 - Insightful interpretation and sharp, persuasive presentation of findings; expert-witness testimony.
- ◆ Clients include Princeton University, Kaiser Permanente, Women's Bar Association, and UMass Lowell.

Senior Research Analyst, DELTAQUEST FOUNDATION, Concord, MA (Jan. 2019 – Jan. 2022)

- ◆ Conducted innovative survey research on quality of life for patients and their caregivers.
 - Investigated ways of coping with major conditions and events such as cancer, spinal surgery, hemophilia, rare diseases, and medical treatments.
 - Improved the validity and reliability of methods for assessing patient and caregiver experience.
 - Collaborated with physicians, pharmaceutical companies, and other researchers.
 - Developed code in R, SPSS, Mplus, and Stata and conducted in-depth multivariate analyses.
 - Contributed to frequent publications in peer-reviewed journals.

Senior Research Analyst, REINFORCED CARE, INC., Ashland & Raynham, MA (2012-2018)

- ◆ Analyzed and interpreted extensive patient data for hospital leadership.
 - Identified predictors and causes of post-discharge outcomes based on complex data feeds.
 - Investigated hospital quality improvements that would also increase revenue.
- ◆ Introduced statistical techniques: data mapping, path diagrams, random forests, Monte Carlo simulation, censored regression, CHAID, MICE, ARIMA, LASSO, and specialized R packages.
- ◆ Led marketing initiatives including white papers, collateral, presentations, and website redesign.
- ◆ Promoted to Chief Research Officer, 2016.

Senior Research Associate, MAGUIRE ASSOCIATES, INC., Concord, MA (2007-2012)

- ◆ Conducted market research and analyzed institutional data to support colleges' enrollment, image, and alumni-outreach efforts.
 - Designed research and supervised teams in data collection, processing, analysis, and reporting.
 - Created in-depth reports addressing school image and climate, drivers of student decisions, and price sensitivity. Presented findings to presidents, deans, and faculty.
- ◆ Authored or contributed to company publications, proposals, and a 90-minute webinar.
- ◆ Clients included Fordham, Carnegie-Mellon, Bates, Georgia Tech, and University of New Mexico.

Statistician/Researcher, HARVARD GRADUATE SCHOOL OF EDUCATION, Cambridge, MA (2003-2007)

- ◆ Designed and conducted research and evaluations for online courses aimed at improving classroom teaching and supporting school reforms internationally.
 - Coordinated all aspects of large-scale internet surveys administered in three languages.
 - Introduced multivariate statistics and systematized data graphics and reporting.
 - Trained and supervised staff in statistical methods, data processing, and use of SPSS and Excel.
- ◆ Created innovative quality assurance approaches as part of a long-term team project.
 - Helped direct development, training, and pilot testing for assessment tools used by 45 employees.
 - Designed and conducted classroom observations and focus groups.
- ◆ Promoted from Research Assistant IV, 2006.

Research Associate, INTERCULTURAL CENTER FOR RESEARCH IN EDUCATION, Arlington, MA (2002)

- ◆ Developed tools for managing an accountability system encompassing 35 Boston agencies. Customized tools to streamline agencies' reporting and to build in automatic accuracy checks.
- ◆ Evaluated large-scale, urban public-school and early-childhood programs.
 - Constructed surveys, achievement tests, and classroom observation guidelines.
 - Combined quantitative analysis, thematic analysis, and secondary research for reports to city officials.

EDUCATION**BOSTON COLLEGE, LYNCH SCHOOL OF EDUCATION,** M.Ed. in Research, Measurement, and Evaluation.

- ◆ GPA 4.0. Dean's Award for Academic Accomplishment. Passed comprehensive exam with distinction.

HARVARD UNIVERSITY, B.A., Medieval European History.**PROFESSIONAL ASSOCIATIONS and VOLUNTEERING****AMERICAN STATISTICAL ASSOCIATION.****AMERICAN EDUCATIONAL RESEARCH ASSOCIATION.** Judged research proposals.**JOURNAL OF COLLEGE STUDENT RETENTION.** Peer reviewer.**NEW ENGLAND STATISTICAL SOCIETY.** Mentor.**ONE CAN HELP,** a nonprofit serving at-risk youth. Advisory Board.**STRATEGIES FOR YOUTH: CONNECTING COPS AND KIDS.** Volunteer evaluator.