

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.

RESEARCH and ANALYTIC EXPERIENCE

Statistician and Research Consultant, INTEGRATIVE STATISTICS, 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 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; Monte Carlo simulation.
 - Insightful interpretation and sharp, persuasive presentation of findings.
- ◆ Clients include Princeton University, Kaiser Permanente, Ropes & Gray LLP, and UMass Lowell.

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 analysis of 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, Bates, Carnegie-Mellon, 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 technical secondary research for reports to city officials.

Research Assistant, BOSTON COLLEGE GRADUATE SCHOOL OF SOCIAL WORK (2001-2003)

- ◆ Developed continuing education materials for social work professionals and students. Wrote study guides, technical instructions, and reviews of textbooks, websites, and software.
- ◆ Conducted literature reviews and drafted grant proposals.

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

AMERICAN EDUCATIONAL RESEARCH ASSOCIATION. Judged research proposals.

JOURNAL OF COLLEGE STUDENT RETENTION. Peer reviewer.

STATISTICS WITHOUT BORDERS. Volunteer.

AMERICAN STATISTICAL ASSOCIATION.