Ksenia Suzanne Polson, Ph.D.

3333 Regis Boulevard | Denver, CO 80221
kpolson@regis.edu | 303.458.4138

ACADEMIC ROLES

Regis University   Denver, Colorado
Assistant Professor of Data Science   August 2021 – Present
Adjunct Instructor, Data Science   February 2019 – July 2021

University of Colorado at Boulder   Boulder, Colorado
Lecturer, Business Information and Analytics   August – December 2020

University of Denver   Denver, Colorado
Adjunct Instructor, Statistics   January 2020 – June 2021
Adjunct Instructor, Business Information and Analytics   March – June 2015

EDUCATION

University of Denver   Denver, Colorado
Ph.D. Research Methods and Statistics   June 2017

University of Denver, Josef Korbel School of International Studies
M.A. Global Finance, Trade & Economic Integration   August 2009
B.A. International Studies, Minor in Theatre   August 2009

University of Queen Mary   London, United Kingdom
Study Abroad   September – December 2006

GRANTS AWARDED

Grant for Dissertation Research, City and County of Denver: $3500

RESEARCH INTERESTS

My research focuses on statistics and quantitative research methods including psychometric measure development, survey design, and program evaluation. Additional area of interest within data science: text analytics.

PROFESSIONAL EXPERIENCE

2020 – Present   Statistical Consultant, EffectX (consulting firm), Denver, Colorado. Consults on all stages of a data analytics plan including data integration, study design, analysis using: R, Power BI, and Tableau; responsible for manuscript generation.
Provides recommendations for program improvements and development initiatives.

2017 – 2019   Data Analyst, Judi's House (non-profit), Denver, Colorado. Served on the Evaluation Committee contributing statistical design and data science acumen; managed projects that included data hypothesis testing, inferential statistics, and measure development using Item Response Theory and Classical Test Theory to advance JH mission and the broader field of public health; compiled, cleansed, and analyzed data that included over 10 assessments across multiple time points used in mid-year and annual reporting of data for JH leadership and staff

2016 – 2017   Contractor, Denver Office of Strategic Partnerships (DOSP), City and County of Denver. Conducted evaluations of local programs using quantitative and qualitative statistical analysis methods; developed research design, arranged for data access, managed data; provided guidance on privacy and informed consent process, performed data analysis, and interpreted results for technical and non-technical audiences; partnered with DOSP staff and multiple stakeholders to accomplish projects' goals.

2014 – 2016   Data Manager, Marsico Institute for Early Learning and Literacy, Kennedy Institute, Morgridge College of Education, University of Denver. Technology-enhanced Research-based Instruction, Assessment and professional Development (TRIAD) Project, Connect4Learning Project, and Jeffco Prosperity Project. Collected, organized, and managed data; performed research, data analysis, and program evaluation activities; evaluated effects of early mathematics curriculum on child achievement outcomes; summarized results through oral and written communications.

2014   Doctoral Student, Bill and Melinda Gates Educational Outcomes Grant, Kent Seidel, University of Denver. Conducted a research study, analyzed data using statistical packages.

2013 – 2014	Market and Policy Intern, National Renewable Energy Laboratory, Golden, CO. Designed an evaluation of National Park's services, synthesized results of studies in technical reports.
2011	Course Instructor, Junior Achievement, Denver, CO.
2010 – 2011	Program Assistant, Executive Director's Office, Department of Regulatory Agencies, Denver, CO. Responsible for evaluation of department's green program based on cost savings metrics, accountable for financial administration.

PUBLICATIONS

Shea, A. L., Sorauf, K.J., **Polson, K.S**., Calderon, B., Poupard, M. & Zolnir-Groshong, A. (2022). One-dollar medications: evaluating the true cost. *Advances in Translational Medicine. 18*(1), 1-33.

CONFERENCE PAPERS

Polson, K., & Blizzard, H. (2016, March). *The Power of Knowledge: Teaching Geometry to Young Children.* Poster accepted for presentation at the Society of Research in Human Development, Denver, Co.

Blizzard, H., & Polson, K. (2016, February). *Teaching Mathematical Concepts to Young Children.* Paper presented at the Rocky Mountain Early Childhood Conference, workshop, Denver, Co.

Polson, K., & Blizzard, H. (2016, January). *The Power of Knowledge: Teaching Geometry to Young Children.* Paper presented at the University of Denver's Research Summit, Denver, Co.

TEACHING EXPERIENCE

Regis University   Denver, Colorado
Assistant Professor /Adjunct Instructor of Data Science
- Introduction to Data Science
- Ethics, Privacy and Social Justice in Data Science
- Statistical Methods and Experimental Design

- Data Visualization

University of Denver   Denver, Colorado
Adjunct Instructor, Statistics
- Introduction to Statistics

Adjunct Instructor, Business Information and Analytics
- Business Statistics and Analysis

University of Colorado at Boulder   Boulder, Colorado
Lecturer, Business Information and Analytics
- Quantitative Methods

University of Denver   Denver, Colorado
Teaching Assistant
- Empirical Research Methods
- Education Research and Measurement

SERVICE

2021	Data Science Representative, Regis University Research Council
2021	Regis University, Academic Advisor, Graduate Level

VOLUNTEER ACTIVITIES

2021   JoyBox (private company). Wrote a proposal that provided guidance on best practices for obtaining consent on data collected via the Internet. Developed a research design intended to support the Re-norming of the Ireton Inventory for the Milestones on which the application is based on.

UNPUBLISHED REPORTS

Seidel, K., Green, K. E., Tobiassen, C., Govindasamy, P., Kuskova-Burns, K., & Frazier, K. (2014, June). *Summary Technical Report: Exploratory Analysis of Available State, District, and School Level Data Variables Potentially Related to Factors of Interest in Meta-Analysis of Literature on Improving Middle School Mathematics Teaching and Learning.* For the *Profiles of Teacher Proficiency* Project, funded by the Bill & Melinda Gates Foundation.

PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery
American Evaluation Association
Colorado Evaluation Network
Society of Research in Human Development