

Henry Mendoza

hmendozar@unal.edu.co, hmendozar@gmail.com

Skills

- Presentation skills and experience explaining complex information to non-technical audiences
- Ability to work independently and collaboratively
- Ability to work with limited supervision in a fast-paced, small-team environment
- Ability to manage multiple projects in a fast paced environment
- Strong verbal and written communication skills.
- Experience with multiple statistical programming languages such as SAS, Minitab, Mplus, Spss, R and MS Office applications (Excel, Word, Access, Powerpoint)
- Experience with SQL
- 10+ years of experience performing statistical methods on collaborative projects.

Education

The University of California, Riverside, CA Masters, Statistics, 2011

- Representative Coursework: SAS Computing and programming, Statistical Consulting and Data Analysis (applications on General linear models, Longitudinal data analysis, Survival analysis, Generalized linear models), Regression Methods, Multivariate Analysis, Advanced Design and Analysis of Experiments, Time series Analysis, Discrete Data Analysis, Advanced Education and Psychometric Measurement and Structural equations Modeling, Advanced Probability.

The National University of Colombia, Bogotá, Colombia Masters, Statistics, 2002

- Representative Coursework: Sampling, General linear models, probability, Mathematical Statistics

The Industrial University of Colombia, Bucaramanga, Santander Bachelor of Science, Mathematics, 1991

Statistical Consulting Experience (Public and Private Companies)

INVIMA - Instituto Nacional de Vigilancia de Medicamentos y Alimentos (National Institute of Food and Drug Monitoring). October 1 to Nov 14 2014.

- Diagnostic, and application of statistical techniques for uncertainty measurement.

The National University, the Statistical Consulting Unit. (February 2013-August 2014)

- Interviewing client's employees, and management team
- Identifying issues and forming hypotheses and solutions

- o Preparing business proposals/presentations.
- o Managing projects and programs
- o Arranging and presenting talks and courses on various statistical topics

The Office of the Attorney, Bogotá, Colombia. (December, 2012)

- o Construction and validation of test questions in the contest of the Office of the Attorney.

Minister of foreign Trade, Bogotá, Colombia. Consulting projects (Sept 6 to Nov 4, 2012).

- o Diagnosis of the current situation of logistics at ports and airports, design, development and implementation of a module to import and export logistics at ports and airports, for foreign trade single window, responsible for
- o Construction of questionnaire to collect quantitative data
- o Sampling design and pilot testing
- o implementation, collection and design of the final questionnaire
- o Build a database to capture the data
- o Statistical analysis of the data
- o Writing of the statistical report

Colombian Institute of Family Welfare (ICBF), Bogotá, Colombia (May 10 to August 13, 2006)

Statistician leader in a collaborative consulting project "design and implementation of the Evaluation Model National Feeding Program for the elderly" responsible for:

- o Construction of questionnaire to collect quantitative data
- o Sampling design
- o Support to the implementation, collection and design of the final questionnaire

Colombian Institute of Family Welfare (ICBF), Bogotá, Colombia (May 10 to August 13, 2006)

Statistician leader in a collaborative consulting project planning "Project Design and implement sexual and reproductive health, and sexual reproductive rights directed to children, youth and homeless families in special situations addressed by social protection centers of ICBF", responsible for:

- o Construction of questionnaire to collect quantitative data
- o Sampling design and pilot testing
- o Support to the implementation, collection and design of the final questionnaire
- o Build a database to capture the data
- o Statistical analysis of the data
- o Support in final writing report
- o To Attend to event and socialization activities and training during the project
- o To attend meetings during the project

Training Experience (Instructor Courses)

INVIMA - Instituto Nacional de Vigilancia de Medicamentos y Alimentos (National Institute of Food and Drug Monitoring). October 1 to Nov 14 2014.

Basic Probability. The National University of Colombia, Bogotá, Colombia. (Semester I 2014, Semester I 2015). Diploma Certification in Basic Probability and Inference.

Basic Statistics with the statistical program SAS. Liberty Insurance, Colombia-The National University of Colombia. October 1 to Dec 2014

Industrial Statistics. Occidental Petroleum Corporation (NYSE: OXY), Bogotá, Colombia. (June 18 to September 30, 2004)

Administration Experience

- **Coordinator of the Certification in Basic probability and Inference.** (Since February 2014)
 - Planning methodology, content and material design
 - Planning budget and personal contract
- **Coordinator of the extension.** (February 2013 to August 2014). The Statistics Department of The National University of Colombia. Responsible for consulting proposal, planning Budget.
- **Director of the office of E-learning Education Unit** (November 2006 to January 2009). The National University of Colombia.
 - Leader of the team for planning and Implementation of strategies and methodologies for teaching online classes among six campuses
 - Leader of Training and Coaching 1500+ Faculty for E-Learning.
 - Design and development of a Multi-Campus online teaching
 - Development of a statistical information system for assessment of the quality of services.
 - Leader for the design and edition of 150+ eBooks and online tools materials for teaching and learning.
 - Design and implementation of classrooms with web technologies for teaching
- **Coordinator of the lecture session in probability and Statistics for engineering.** (January 1998 to December 1 2006). The Statistics Department of The National University of Colombia.
- **Member for the adviser committee.** The Statistics Department of the National University of Colombia. (August 1999 to June 2000, February 2013-August 2014).
- **Committee Member.** The adviser committee in The International Symposium on Quality Control (1999) organized by the Statistics Department of The National University of Colombia.

- **Committee Member.** Planning development committee for the Faculty of Sciences

Teaching Experience

- **Teaching Assistant.** The University of California, Riverside, CA (January 2010 - March 2010)
Responsible for tutoring, discussion sessions, and lab computing in statistics; grading lab.
- **Instructor for graduate and undergraduate lecturers** The National University of Colombia. (since August 1997).
 - +15 years' experience as a professor in the Statistics Department and responsible for graduates and undergraduates lectures in: Regression Methods, Linear models, Experimental Design, Probability, Statistical Inference, Linear Algebra, Fundamentals of Biostatistics.
 - +10 years experience on researching in statistical methodologies and consulting for collaborative projects in Pharmaceutical sciences, Biology, education, engineering, Biomedical Sciences among others.

Software Training

- Advanced Business Analytics. National University, USA. Junio 16-20, 2014.
- Applied Analytics Using SAS Enterprise Miner. SAS Institute Colombia S.A.S. Agosto 4, 2014.
- Text Analytics Using SAS(R) Text Miner. June 8-9, 2015
- SAS(R) Visual Analytics for Professors. June 10, 2015
- SAS(R) Visual Statistics for Professors. June 11, 2015
- LMS: Blackboard, Moodle (Versions 2.8 and 2.9)

Awards

- Teaching Assistant at the University of California, Riverside
- Tuition Scholarship (Master degree in Statistics). The National University of Colombia, 1996.
- First place in the "OCM (Colombian Mathematics Olympiad)". High School, Lácides C. Bersal, Lórica, Córdoba (Colombia), 1983.
- First place, High School Lácides C. Bersal, Lórica, Córdoba (Colombia), 1983. (similar to **Valedictorian in USA**)
- Best Student in General Test for High School in Colombia (ICFES). High School, Lácides C. Bersal, Lórica, Córdoba (Colombia), 1983.

Research Experience

- Subscores in Item Response Theory (running)
- Applied Statistics Group in Experimental Research, Industry and Biotechnology. The National University of Colombia, 1996 to present.
- Research Assistant Student, The National University of Colombia, Bogotá, Colombia, 1996-2002
- Leader of the research group in E-learning, The National University of Colombia, 2005 to present.

Publications

On-line Lecture Notes

- **Mendoza, H.**, Bautista, G. (2004). Fundamental of Biostatistics (Spanish). <http://www.virtual.unal.edu.co/cursos/ciencias/2001091/index.html>
- **Mendoza, H.**, Bautista, G. (2002). Design of Experiments (Spanish) <http://www.virtual.unal.edu.co/cursos/ciencias/2000352/index.html>.
- **Mendoza, H.**, Bautista, G, López L.A, Vargas, J.A. (2002). Regression Methods. (Spanish) <http://www.virtual.unal.edu.co/cursos/ciencias/2007315/index.html>
- **Mendoza, H.**, Bautista, G. Probability and Statistics. (2002). (Spanish) <http://www.virtual.unal.edu.co/cursos/ciencias/2001065/index.html>

Books Chapters

- **Mendoza, H.** (2006). Teaching experiences with on-line tools in face to face classes of Probability and Statistics. Book chapter: Significant Experiences in Pedagogy Innovation / eds. Germán Hernández, Freddy Abel Vargas Cardozo. – Bogotá. The National University of Colombia. Dirección Académica, 284 p. : ils. ISBN: 978-958-701-780-9.
- Gómez, E., Cortes C., **Mendoza, H.**, Hernandez H.(2006). Análisis del comportamiento mecánico de la resina epóxica reforzada con fibra de carbono. Memorias del III Congreso Internacional de Ingeniería Mecánica y I de Ingeniería Mecatrónica C IMM2006., ISBN:958701619, Vol. 1, págs.:1-12, Ed. Universidad nacional de Colombia-Sede Bogotá
- Gómez, E., Hernandez, H. Boyaca, A., **Mendoza, H.**, Cortes, C. Análisis del comportamiento mecánico de la resina epóxica reforzada con fibra de carbono. (2006). Memorias del Primer encuentro de Investigación en posgrados, Facultad de Ingeniería, Universidad Nacional de Colombia, ISBN: 958-701-619-X, Vol. 1, págs.:1-10, Ed. Publicaciones facultad de Ingeniería, Universidad nacional de Colombia.

Articles

- Bautista, G., **Mendoza, H.** and Uribe, D. (2007). | http://www.scielo.org.co/scielo.php?script=sci_arttext&pid=S0120-548X2007000100002&lng=en&nrm=iso&qt

- Héctor Hernández, Alexander Vilorio, Yulieth Arango, Augusto Jiménez, **Henry Mendoza**, John J. Cadena. (2004). Mejoramiento del proceso de granallado para resortes de ballestas utilizando medición de esfuerzos residuales por difracción de rayos X. Revista Ingeniería e Investigación. ISSN 0120-5609. Volumen 56.
- **Mendoza, H.**, and López, L. (2002). Estimation of missing data in Connected Balanced incomplete block designs. Revista Colombiana de Estadística, volume 24, Page. 73-89.

Manuals

- **Mendoza, H.**, and Bautista G. (2003). Statistical analysis using Microsoft Excel. Colloquium Distrital de Matemáticas y Estadística.

Published Short Talks

- Mendoza, H. (2004). Experiences in implementing educational tools in the virtual classroom. The National University of Colombia. Symposium Statistical 2004. Cartagena de Indias. Colombia.
- Mendoza Henry, Pacheco P. (2004). Analysis of survey in the evaluation of on-line teaching on Probability and Statistics for Engineering. The National University of Colombia. Symposium of statistic 2004. Cartagena de Indias. Colombia.
- Mendoza, H. (2003). The analysis of covariance in clinical trials and selection of the best covariates, memories of the Symposium Statistics: Statistics applied to the Health Sciences. The National University of Colombia. Armenia, August 2003.
- Mendoza, H. (1998). An easy method for teaching statistics with Microsoft Excel. XV Colloquium Distrital de Matemáticas y Estadística-Universidad Distrital Francisco José de Caldas, 1998.
- Mendoza, H. (1998). As fascinating method for using quadrilaterals and combinatorial. XV Colloquium Distrital de Matemáticas y Estadística-Universidad Distrital Francisco José de Caldas, 1998.
- Mendoza, H. (1997). Construction of mutually orthogonal Latin squares in experimental designs. Memories of the second seminar of math and science related - Technological Inespro.

Presentations and Talks

- Conference: "The teaching of statistics using virtual tools. " First Day of Research and Education in Engineering "organized by the Technological University of Chocó. April 4-5, 2006.
- Conference: "Probability Supported Learning in Virtual Tools." Engineering Education "Competencies and Methodologies". Universidad de los Andes. March 15-17 2006.
- Conference: "Learning probability supported by electronic tools". Day of Successful experiences in technological innovation. The National University of Colombia. March 3, 2006.
- Short Talk: "interactive applications in the teaching of regression methods " Statistics Symposium The National University of Colombia "Multivariate Data Analysis. " Paipa (Boyacá), August 2005.

- Short Talk: "Analysis of survey in the evaluation of on-line courses to teach Probability and Statistic in engineering". The National University of Colombia. Symposium of statistic 2004. Cartagena de Indias. Colombia.
- Short Talk: "Experiences in implementing educational tools in the virtual classroom". Statistics Symposium, The National University of Colombia. Cartagena de Indias. Colombia. 2004.
- Conference: "Mobile applications in education and on-line universities" St. Thomas University. March 10, 2004.
- Conference: "A virtual experience in Education, National University of Colombia" Meeting of graduates of Bachelor of Mathematics, Universidad Industrial de Santander. October 2003.
- Short Talk: "The analysis of covariance in clinical trials and the selection of the best covariates". Statistics Symposium, The National University of Colombia. Statistics Applied to Health Sciences. Armenia (Quindío), August 2003.
- Short Talk: "As fascinating method for using quadrilaterals and combinatorial". XV Colloquium Distrital de Matemáticas y Estadística-Universidad Distrital Francisco José de Caldas, 1998.
- Conference: "The construction of mutually orthogonal Latin squares in experimental designs " Second Seminar on Mathematics and related sciences - Technological INESPRO, November 26, 1997.

Invited courses

- Short-Course on "Virtual tools in the classroom" Industrial University of Santander. School of Mathematics. Course for the north-eastern Symposium Math. December 2004.
- Short-Course on "Statistical analysis using Microsoft Excel" (With Gloria Bautista Mendoza), The National University of Colombia, Colloquium Distrital de Matemáticas y Estadística, 2003.
- Short-Course on "An easy method for teaching statistics with Microsoft Excel". XV Colloquium Distrital de Matemáticas y Estadística-Universidad Distrital Francisco José de Caldas, 1998.

Professional Affiliations and Membership

The American Statistician Association