

Ian Mouzon | Curriculum Vitae

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 [imouzon](https://github.com/imouzon)

Education

Iowa State University <i>PhD, Statistics (Expected 2016)</i> Research interests include data mining and machine learning, time series, and data technologies.	Ames 2010–current
University of North Florida <i>MS, Math</i> "Differential modeling of multivariate longitudinal data" (advisor: Pali Sen)	Jacksonville 2008–2010
University of North Florida <i>BS, Math</i> Minored in biology, histological research on mosquitoes during final year.	Jacksonville 2001–2006

Awards

- Prudsys Data Mining Cup - 1st place team (2014)
- Prudsys Data Mining Cup - 5th place team (2013)
- GlaxoSmithKline Scholar award (2010)
- UNF Statistics Graduate Student of the Year (2010)
- UNF Math Undergraduate Student of the Year (2006)
- UNF Summer Biology Student Award (2006)

Experience

Iowa State University <i>Graduate research assistant</i> Currently an assistant on a grant obtained by Dr. Ulrike Genschel through the National Science Foundation (HRD-1036791) examining possible causes of the STEM gender gap in higher education, wherein female majors in Science, Technology, Engineering, and Mathematics tend to leave STEM at a faster rate than male students of similar academic background. Responsible for planning and performing statistical analyses of our data and summarizing and presenting the results;	Ames 2011–2014
Iowa State University <i>Graduate teaching assistant</i> Course assistant for STAT 602, STAT544; Taught sections of STAT 101 and STAT 326 labs at ISU	Ames 2010, 2014–2015
University of North Florida <i>Graduate teaching assistant</i> While earning my MS I was supported by the department on a teaching assistantship.	Jacksonville 2008–2010
Duval County Public Schools <i>Teacher</i> After graduation, I taught at Robert E. Lee High School in Jacksonville, where I helped establish the school's first film club.	Jacksonville 2006–2008

Posters and Presentations

- Research in Undergraduate Mathematics Education (contributed report)** **Pittsburgh**
Cluster analysis of STEM gender differences 2015
I. Mouzon, U. Genschel, X. Nguyen
- American Mathematical Association of Two Year Colleges (regular session)** **Nashville**
The Role of Self-Efficacy in the Retention of STEM Students 2014
U. Genschel, X. Nguyen, **I. Mouzon**
- Iowa State University (departmental seminar)** **Ames**
How ISU became World Data Mining Champ! 2014
G. Basulto-Elias, F. Cao, X. Cheng, M. Dragomiroiu, J. Hicks, C. Lanker, **I. Mouzon**, L. Pan, X. Yiu
- Joint Statistical Meeting (contributed paper)** **Boston**
Early College Perf., Gender, and Other Factors Influencing Continuation in STEM Fields 2014
I. Mouzon, U. Genschel, A. Carriquiry, X. Nguyen, A. Kaplan, E. Johnston, W. Kliemann, K. Koehler
- Joint Statistical Meeting (contributed paper)** **Boston**
Stat. and Math. Self-Efficacy of Incoming Students at a Large Public University 2014
U. Genschel; A. Kaplan; A. Carriquiry; E. Johnston; W. Kliemannof; K. Koehlerof; **I. Mouzon**; X. Nguyen
- Joint Statistical Meeting (contributed paper)** **San Diego**
Identifying Gender-Specific Factors Related to STEM Retention at a Large State Univ. 2012
U. Genschel, J. Riddles, **I. Mouzon**, A. L. Carriquiry, M. Degnan, E. Johnston, K. Koehler, W. Kliemann, H. Nguyen
- Joint Statistical Meeting (contributed poster)** **San Diego**
Validating a Tool for Assessing Statistical Self-Efficacy in the Undergrad. Student Pop. 2012
I. Mouzon, U. Genschel, A. Carriquiry, M. Degnan, J. Riddles, E. Johnston, W. Kliemann, K. Koehler, H. Nguyen

Computing Tools

Statistics: SAS, R, Weka, FORTRAN, C **Reporting:** \LaTeX , Markdown, HTML, Shiny
Data Management: SQL (SQLite, MySQL) **Editing:** Vim, shell, perl, vimscript, git

Data mining

- Data Mining cup 2013: I am very interested in machine learning and data mining. In 2013 I participated in the Data Mining Cup, an international data mining competition sponsored by Prudsys. The problem was based on classifying online shoppers as buyers or not based on a set of variables. We came in 5th place, were the highest ranked team in the US and were invited by Prudsys to Berlin to present our solution.
- Data Mining cup 2014: In 2013 I again participated in the Data Mining Cup. This year's problem involved classifying online purchases based on whether or not they were eventually returned. We won the competition this year. We were once again invited to Berlin by Prudsys and (more excitingly) presented our methods to the entire statistics department during one of the semesters seminars.
- Kaggle: I have participated in three Kaggle competitions since summer 2013, to varying degrees of success.