Claudia M. Mahler

Department of Mathematics and Statistics
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EDUCATION

2014 – 2016	**M.S., Statistics** University of Calgary Supervisors: Dr. Gemai Chen and Dr. Hua Shen
2012 – 2014	**B.S., Mathematics** University of Idaho
2009 – 2011	**M.A., Psychology** University of British Columbia Supervisor: Dr. Victoria Savalei
2007 – 2009	**B.S., Philosophy** **Statistics minor** University of Idaho
2006 – 2008	**B.S., Psychology** University of Idaho

EXPERIENCE

Sep. 2019 – present	**Instructor** University of Calgary Department of Mathematics and Statistics Courses: Intro to Statistics I, University Calculus I Duties:

- Instructing independent sections of introductory math/statistics (120 – 260 individuals)
- Creating lecture material, assisting in the creation of exams
- Providing assistance to students outside of lecture
- Topics covered: basic probability, exploratory data analysis, regression, CLT, confidence intervals, limits, differentiation techniques, related rates, optimization, curve sketching, integration techniques

Sep. 2016 – Aug. 2019	**Sessional Instructor**
	University of Calgary Department of Mathematics and Statistics
	Courses: Intro to Statistical Inquiry, Intro to Statistics I and II, Statistics for the Physical and Environmental Sciences, Introductory Calculus

Duties:
- Instructing independent sections of introductory math/statistics (37 – 260 individuals)
- Creating lecture material, homework, exams
- Providing assistance to students outside of lecture
- Topics covered: basic probability, exploratory data analysis, regression, CLT, confidence intervals, hypothesis testing, nonparametric statistics, limits, differentiation techniques, related rates, optimization, curve sketching, integration techniques

Sep. 2014 – Dec. 2016	**Teaching Assistant**
	University of Calgary Department of Mathematics and Statistics
	Courses: Intro to Statistics I and II; Intro to Statistical Inquiry

Duties:
- Explaining and demonstrating introductory statistical techniques to groups of students (10 – 30 individuals)
- Assisting students in groups or individually with solving statistics-related problems
- Introducing students to statistical software (Minitab)

Aug. 2012 – Jun. 2014	**Lecturer**
	University of Idaho Department of Statistical Science
	Course: Statistical Methods

Duties:
- Instructed an independent section of introductory statistics
- Created syllabi, lecture material, homework, exams
- Provided assistance to students outside of lecture
- Topics covered: descriptive statistics, hypothesis testing, simple regression, ANOVA
- Introducing students to statistical software (Minitab, R)

May 2013 – Aug. 2013	**Data Analyst**
	University of Idaho Department of Plant, Soil, and Entomological Sciences

Duties:
- Organized and conducted statistical analyses on large amounts of survey data in SAS
- Presented statistical results in easy-to-understand reports and graphs

Jan. 2011 – Apr. 2011, Sep. 2009 – Apr. 2010	**Teaching Assistant** University of British Columbia Department of Psychology Courses: Analysis of Behavioural Data; Research Methods Duties: - Helped students prepare final reports by aiding in rough draft revision, providing feedback on written work, and discussing projects - Provided assistance to undergraduate students with regard to research methods/statistics homework as well as preparations for exams
Jan. 2008 – May 2009	**Research Assistant** University of Idaho Department of Psychology Duties: - Performed statistical analyses for several industrial/organizational psychology-related research projects, including those involving anchoring effects and salary negotiation and self-ratings and their effects on performance judgments - Supervised and managed participants during studies - Convened with professors and other research assistants to discuss study results, possible alternative statistical analyses, organization of posters for conferences, and to delegate writing responsibilities for study summaries

PUBLICATIONS AND CONFERENCES

Theses

Mahler, C. (2016, August). The Influence of Model Components and Misspecification Type on the Performance of the Comparative Fit Index (CFI) and the Root Mean Square Error of Approximation (RMSEA) in Structural Equation Modeling.

Mahler, C. (2011, July). The effects of misspecification type and nuisance variables on the behaviors of population fit indices used in structural equation modeling. Retrieved from The University of British Columbia Electronic Theses and Dissertations. (http://hdl.handle.net/2429/36240)

Conference Posters

Mahler, C. & Savalei, V. (2010, May). CFI and RMSEA fail to accurately predict the amount of model misspecification. Poster presented in May at the 22nd Annual Convention of the Association for Psychological Science, Boston.

Thorsteinson, T. J., Mahler, C., & Carr, T. (2009, May). Anchoring effects on salary recommendations requires scale compatibility. Poster presented at the 21st Annual Convention of the Association for Psychological Science, San Francisco.

Thorsteinson, T. J., Carr, T., & Mahler, C. (2009, April). Raters' perceptions and use of inflated self-ratings in performance judgments. Poster presented at the 24th Annual Convention of the Society for Industrial and Organizational Psychology, New Orleans.

HONORS, AWARDS, AND POSITIONS

2016	Recipient of the **Fred A. McKinnon Graduate Teaching Award**
2015	Recipient of the **University of Calgary Mathematics and Statistics Department Graduate Assistant Teaching Excellence Award**
2014	Recipient of the **University of Calgary Mathematics and Statistics Department Graduate Assistant Teaching Excellence Award**
2014	Graduated **magna cum laude** from the University of Idaho (3.96/4.00 GPA)
2009 – 2011	**Quantitative Methods area representative** for the University of British Columbia Psychology Department
2010	Recipient of the **University of British Columbia Faculty of Arts Graduate Award**
2009	Recipient of the **University of British Columbia Graduate Entrance Scholarship**
2009	Graduated **summa cum laude** from the University of Idaho (3.97/4.00 GPA)
2008	Graduated **summa cum laude** from the University of Idaho (4.00/4.00 GPA)
2006 – 2009, 2012 – 2014	**University of Idaho Dean's List** (all semesters attended)

ADDITIONAL SKILLS

- Excellent spoken and written English
- 10+ years' experience with Microsoft Word, Microsoft PowerPoint, and Microsoft Excel
- 8 years' experience with R
- 5 years' experience with SAS
- 4 years' experience with WebWorK, including 2 years' experience creating and editing WebWorK-based questions
- 1 years' experience with C++ programming